



Municipal Solid Waste in Texas: *A Year in Review*

2017 Data Summary and Analysis

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Prepared by
Waste Permits Division

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General Information

Municipal Solid Waste in Texas: A Year in Review is prepared by the Municipal Solid Waste (MSW) Permits Section of the Texas Commission on Environmental Quality (TCEQ). The summary includes data on the types and amounts of waste disposed and processed at the state's permitted and registered MSW facilities. The report also includes an estimate of the state's remaining MSW landfill disposal capacity.

Reporting Period

Reports from MSW facilities are based on a fiscal year, which runs from September 1 through August 31. Unless otherwise indicated, all references to 2017 in this annual summary are related to fiscal year 2017 (September 1, 2016 through August 31, 2017).

Reporting Requirements

In accordance with Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter P (relating to Fees and Reporting), MSW facility operators are required to submit an annual report to the TCEQ covering the types and amounts of waste processed or disposed at an authorized facility.

Data Sources

The data in this summary were from annual reports submitted by owners or operators of 196 active landfills and 207 active processing facilities. Reported data were reviewed; and discrepancies reconciled with facility representatives, quarterly report data, and agency records (MSW Records).

Facility reports included:

- operational information (e.g., which counties the facility serves),
- administrative information (e.g., facility owner or operator contact information),
- facility activities (e.g., types and amounts of waste accepted for disposal or processing), and
- facility characteristics (e.g., landfill elevations, monitoring well data, other authorizations within a facility's authorized boundary)

Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population for Counties: April 1, 2010 to July 1, 2017*, available at

www.census.gov/data/tables/2017/demo/popest/counties-total.html.

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Facility Information

MSW facilities in Texas are classified according to the method of processing or disposal (30 TAC §330.5).

Landfills (disposal facilities)

This section provides a summary of MSW landfill types, activity, and capacity in 2017.

Type I landfill

A Type I landfill is the standard landfill for MSW disposal in Texas. In 2017, there were 97 Type I facilities, accounting for 49% of all active landfills, about 89% of the total waste disposed, and 94% of the total statewide remaining capacity.

Type IV landfill

A Type IV landfill only accepts brush, construction or demolition waste, and other similar nonputrescible waste. In 2017, there were 23 Type IV facilities, accounting for 12% of all active landfills, almost 10% of the total waste disposed, and 5% of the total statewide remaining capacity. These landfills were not distributed evenly across the state; approximately 65% were in the Houston-Galveston Area Council's region (COG-16).

Arid-exempt (AE) landfill

Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt (AE) landfills. These landfills are exempt from liner and groundwater monitoring requirements, but have limited waste acceptance rates (30 TAC §330.5(b)). In 2017, there were 70 AE landfills, accounting for approximately 36% of all active landfills, 1% of the total waste disposed, and 1% of the total statewide remaining capacity.

Monofill

Counties or municipalities with 12,000 or fewer people may obtain a renewable five-year permit by rule under 30 TAC §330.7(i) to dispose demolition waste from properties with nuisance or abandoned buildings into disposal facilities that are owned or controlled by a county or municipality. In 2017, there were 6 monofills, accounting for 3% of all active landfills.

Landfills Reporting

MSW Records indicated that in 2017 there were 196 permitted MSW landfills actively accepting and managing waste (Figure 1); all active facilities submitted reports.

Facility data for the 2017 active landfills are presented in the *Facility Data for MSW Landfills* section of this report. Information from landfill annual reports is also available online through the TCEQ's Central Registry website at <www.tceq.texas.gov/goto/cr-searchid>.

To access an online report for a specific landfill:

- On the *Central Registry Query - Additional ID Search* page, enter an MSW permit number, including any amendment letter (e.g., 1312B) in the *Program ID* field and click the *Search* button
- On the *Regulated Entity Information* results page, scroll down to the table of *Permits, Registrations, or Other Authorizations* and select the active "Municipal Solid Waste Disposal" ID Number in the table
- In the resulting list of *Related Information*, select "Periodic Reports"
- In the *Select Report* field, select "MSW Annual Report" and click the *Search* button
- In the *Select Year* field, select the year of interest and click the *Search* button

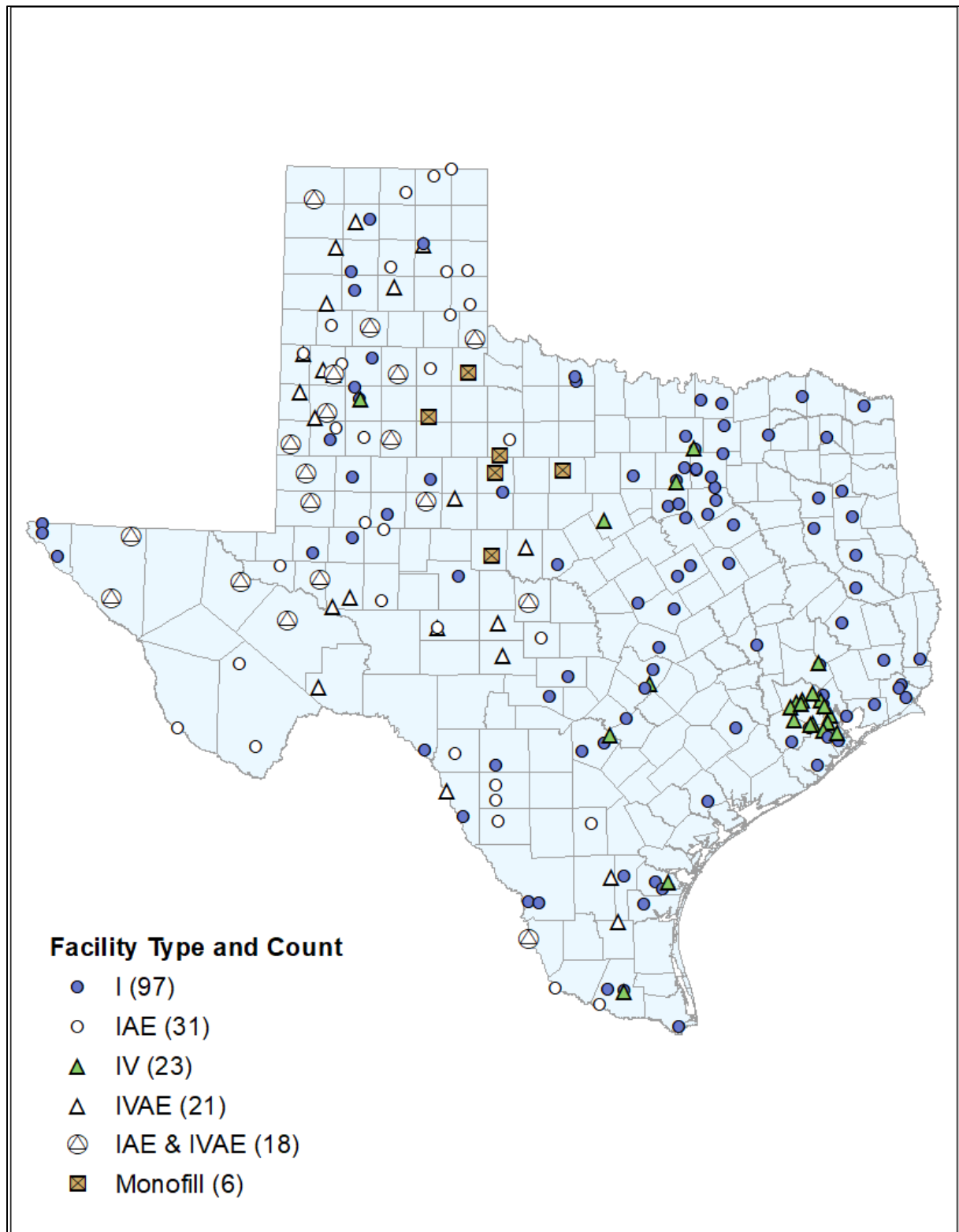


Figure 1. Active Texas MSW Landfills in 2017

Processing Facilities

This section provides a summary of MSW processing facility types and activities in 2017. Compost facilities do not process waste, as defined for Type V facilities, but are counted as processing facilities for purpose of this annual summary.

Type V facility

Type V facilities store or process MSW and authorized nonhazardous industrial wastes. Processing includes transfer, incineration, shredding, grinding, baling, salvaging, separation, dewatering, or reclamation of MSW. Type V facilities may be authorized by permit. However, certain Type V facilities may qualify for authorization by registration if specific requirements are met. For example, a Type V transfer station that includes a material recovery operation and recovers at least 10% (by weight) of the incoming waste stream for reuse or recycling would qualify for a registration. Type V facilities processed about 8.2 million tons in 2017.

Type IX facility

A Type IX facility is an energy, material, gas recovery for beneficial use or landfill mining facility located within or adjacent to a closed landfill, an inactive portion of a landfill, or an active landfill. These facilities are authorized by registration. Type IX facilities do not process waste, as defined for Type V facilities, but they are classified as processing facilities by rule. In 2017, Type IX facilities recovering landfill gas for beneficial use estimated approximately:

- 23.1 billion cubic feet (ft³) of gas processed;
- 7.7 billion ft³ of gas distributed off-site;
- 512 million kilowatt hours (kWh) of power generated and sold; and
- 117 million (kWh) of power generated and used on site.

Compost facility

A compost facility processes organic material that is diverted from a waste stream. Owners or operators of compost facilities are required to notify TCEQ or obtain a registration or permit, depending upon the types of materials that will be accepted. Composting operations at MSW landfills may be authorized under the landfill permit.

Annual reports are required for registered and permitted composting operations. In 2017, there were 611,718 tons of organic material composted, as reported by 10 permitted MSW landfills and 19 compost facilities.

Processing Facilities Reporting

MSW processing facilities are differentiated by sub-types in MSW Records by a number followed by letters. For example, “5GG” designates a Type V processing facility for grease trap and grit trap waste. For 2017, MSW Records indicated that there were 207 active permitted or registered MSW processing facilities (162 Type V, 19 compost, and 26 Type IX); all active processing facilities submitted annual reports. Table 1 provides the breakdown of the sub-types and number of active processing facilities for 2017.

Table 1. Active MSW Processing Facilities in 2017

Facility Type	Permitted	Registered
Autoclave (5AC)	2	8
Liquid waste processor (5GG)	24	7
Medical waste processor (5MW)	1	2
Medical waste transfer station (5MWTS)	0	6
Recycling & Recovery (5RR)	2	2
Liquid waste transfer station (5TL)	0	5
Transfer station (5TS)	34	67
Waste incinerator (5WI)	2	0
Composting (5RC)	8	11
Gas recovery (9GR)	2	24
Total	75	132

Facility data for the Type V processing facilities and composting facilities active in 2017 are presented in the *Facility Data for MSW Processing Facilities* section of this report.

Facility data for the Type IX facilities recovering landfill gas for beneficial use in 2017 are presented in the *Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use* section of this report.

Information from Type V, compost, and Type IX facilities is also available online through the TCEQ’s Central Registry website at www.tceq.texas.gov/goto/cr-searchid.

To access an online report for a specific processing facility:

- On the *Central Registry Query - Additional ID Search* page, enter an MSW processing facility permit, including any amendment letter (e.g., 1355A), or registration number (e.g., 40132) in the *Program ID* field and click on the *Search* button

- On the *ID Search Results List* page, select the “Municipal Solid Waste Processing ID Number” in the table
- In the resulting list of *Related Information*, select “Periodic Reports”
- In the *Select Report* field, select “MSW Annual Report” and click on the *Search* button
- In the *Select Year* field, select the year of interest and click on the *Search* button

Other Information about Landfills and Processing Facilities

Use of scales

Operators for 74% of the MSW landfills (excluding monofills) and 52% of the 181 Type V processing facilities and composting facilities reported using scales to measure all or some of their accepted waste or feedstock material in 2017. Facilities without scales (as well as many facilities with scales) accepted waste or feedstock material that was measured by estimated volume (i.e., cubic yards).

Texas municipal solid waste fee

Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code requires the TCEQ to charge a fee on all solid waste that is disposed of within the state. Current MSW fee rates for waste received by MSW landfills and processors for disposal are presented in Table 2. Operators of MSW landfills and processing facilities that accept Class 1 nonhazardous industrial waste pay the current commercial Class 1 waste management fees.

Table 2. Texas Municipal Solid Waste Fee Rates

Unit of Measure	Landfills	Processors for Disposal (includes incinerators, composting, and shredding facilities, and similar facilities or processes)
Ton	\$0.94 per ton	\$0.47 per ton
Cubic yard (compacted)	\$0.30 per cubic yard	\$0.15 per cubic yard
Cubic yard (uncompacted)	\$0.19 per cubic yard	\$0.095 per cubic yard

MSW facility tipping fees

MSW landfill and applicable processing facility operators collect the required MSW disposal fee as part of the tipping fee they charge their customers. Tipping fees are based on weight or volume, depending upon the type of waste and method of delivery to the facility.

In 2017, the average statewide tipping fees charged by MSW landfills were:

- \$35.78 per ton, with 136 facilities reporting;
- \$11.55 per compacted cubic yard, with 32 facilities reporting; and
- \$14.91 per uncompacted cubic yard, with 73 facilities reporting.

In 2017, the average statewide tipping fees charged by MSW processing facilities were:

- \$59.85 per ton, with 55 facilities reporting;
- \$17.57 per compacted cubic yard; with 17 facilities reporting
- 17.94 per uncompacted cubic yard, with 40 facilities reporting
- \$0.18 per gallon, with 39 facilities reporting; and
- \$0.58 per pound, with 12 facilities reporting.

Facility ownership and related disposal and capacity information

Most MSW facilities in Texas are owned by government entities such as cities and counties; the rest are owned by corporations and other types of privately held companies.

Landfills

In 2017, of the 196 active MSW landfills, 128 (65%) were publicly owned. These facilities accepted 35% of the state's reported waste and accounted for 42% of the state's total remaining cubic yard capacity. Approximately 53% of the publicly owned landfills were arid-exempt facilities with limited waste acceptance rates.

Processing Facilities

In 2017, of the 181 active Type V processing facilities and composting facilities, 79 were publicly owned. Of the 26 active Type IX facilities recovering landfill gas for beneficial use, only 3 were publicly owned.

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Waste Information

Waste Managed by MSW Facilities

Municipal solid waste

The Texas definition of MSW in 30 TAC, Chapter 330 (Municipal Solid Waste), Subchapter A (General Information), is “*solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.*”

The Texas definition of MSW is more encompassing than the definition used by the U.S. Environmental Protection Agency (USEPA) and some states. The Texas definition includes municipal wastewater plant treatment sludges and construction or demolition waste, whereas the USEPA definition does not. Therefore, the Texas per capita disposal rate may be higher than those of other states because of the broader range of waste types counted as MSW in Texas.

In Texas, wastes are classified first by their source (the generator of a waste), and then the constituents in or properties of the waste. Retailers, repair services, and the public are municipal generators; manufacturers are industrial generators.

Nonhazardous industrial solid waste

Industrial solid waste is defined and regulated under 30 TAC, Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste). Industrial and municipal wastes may be classified as hazardous or nonhazardous. MSW facilities may not accept regulated hazardous waste. However, in certain circumstances, MSW facilities may accept nonhazardous industrial solid wastes. Nonhazardous industrial solid wastes are defined by classes.

- **Class 1:** Industrial solid waste that, based on its constituents and properties, may pose a substantial danger to human health or the environment if it is not properly managed. There are special handling requirements for Class 1 nonhazardous industrial solid wastes (Class 1 waste) at MSW landfills. An example of Class 1 waste could be municipal wastewater treatment plant sludge or industrial sludge containing metals or organics.

The Texas classification of Class 1 waste is based on the leachable concentrations of constituents of concern found in the waste. Waste classified as hazardous cannot be made nonhazardous by dilution.

- **Class 2:** Industrial solid waste that cannot be described as hazardous, Class 1, or Class 3. Activated sludge from industrial biological wastewater treatment plants is typically Class 2 waste.
- **Class 3:** Inert and essentially insoluble industrial solid wastes that do not readily decompose, such as bricks or concrete from an industrial facility.

Most MSW facilities may accept Class 2 and Class 3 wastes. Class 1 waste, other than asbestos-containing material, may only be accepted at MSW landfills with dedicated cells that have more protective designs, as specified in 30 TAC §330.331 (e). MSW landfills with dedicated Class 1 waste cells that reported accepting Class 1 waste in 2017 are listed in Table 3.

Table 3. MSW Landfills that Accepted Class 1 Waste in 2017

Permit	Landfill Name	Landfill Type	County
2093B	Covel Gardens Landfill	I	Bexar
1410C	Tessman Road Landfill	I	Bexar
1539A	Seabreeze Environmental Landfill	I	Brazoria
2158	Odessa Landfill	I	Ector
2270	Fort Bend Regional Landfill	I	Fort Bend
1505A	Blue Ridge Landfill	I	Fort Bend
1721A	Coastal Plains Recycling and Disposal Facility	I	Galveston
2348	La Gloria Ranch Landfill	I	Hidalgo
241D	Itasca Landfill	I	Hill
2027	BFI Golden Triangle Landfill	I	Jefferson
1417B	IESI Turkey Creek Landfill	I	Johnson
2325	Abilene Environmental Landfill	I	Jones
1469A	Abilene Landfill	I	Jones
2242A	Western Waste of Texas Newton Complex	I	Newton
1663B	Southwest Landfill TX	I	Randall
797B	Pleasant Oaks Landfill	I	Titus
2286	Ponderosa Regional Landfill	I	Webb

Disposal Information

Waste types

While the majority of MSW disposed in Texas is residential and commercial waste, landfill operators have difficulty in estimating the amounts received for each waste type. For this annual summary, residential and commercial wastes are combined and defined as “municipal”. In 2017, municipal waste accounted for approximately 65% of the total waste disposed at MSW landfills; construction or demolition waste, the second largest waste type, accounted for approximately 20%. The types and estimated amounts of waste disposed in Texas MSW landfills in 2017 are illustrated in Figure 2 and Table 4. Waste types listed in Table 4 are described in the *MSW Waste and Material Type Descriptions* section of this report.

Waste sources

In 2017, less than 1% of waste disposed in the state’s MSW landfills was generated from outside the state. Two landfills accepted waste from Mexico, representing a total of 2,530 tons. Seven landfills accepted waste imported from either Arkansas, Louisiana, New Mexico, or Oklahoma, representing a total of 175,731 tons. There is no requirement for reporting the amount of MSW exported out of Texas.

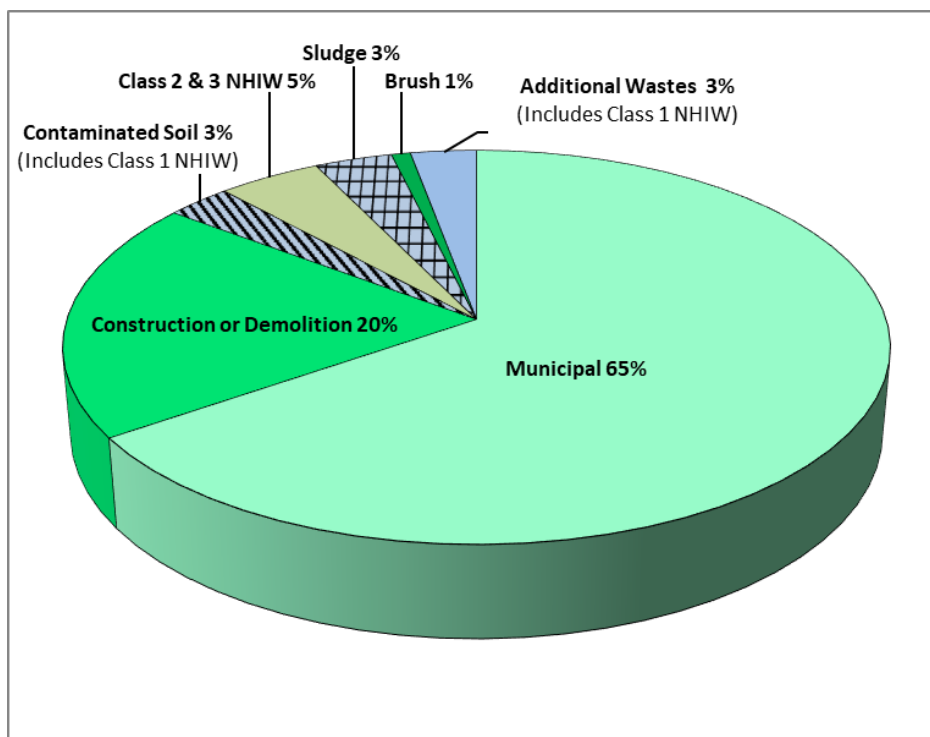


Figure 2. Types and Amounts of Waste Disposed in MSW Landfills in 2017

Table 4. Types and Amounts of Waste Disposed in MSW Landfills in 2017

Waste Type	Number of Landfills Accepting Waste Type	Tons Disposed	Percent of Total Tons Disposed
Municipal	147	23,101,736	65.43
Brush	69	303,093	0.86
Construction or Demolition	156	6,982,658	19.78
Litter	9	3,511	0.01
Class 1 Nonhazardous Industrial Waste (NHIW)	19	589,040	1.67
Classes 2 and 3 NHIW	54	1,630,705	4.62
Incinerator ash	6	5,063	0.01
Treated Medical waste	14	33,477	0.09
Municipal Hazardous Waste from Conditionally Exempt Small Quantity Generators (Municipal CESQG)	2	8,128	0.02
Regulated Asbestos-Containing Material (RACM)	41	38,951	0.11
Non-RACM	40	49,952	0.14
Dead animals	75	10,333	0.03
Sludge	91	1,226,348	3.47
Grease trap waste	14	9,424	0.03
Grit trap waste	16	8,543	0.02
Septage	4	63,743	0.18
Contaminated soil	46	1,022,411	2.90
Tires (only tires that have been split, quartered, or shredded may be disposed in a landfill)	31	60,800	0.17
Pesticides	0	0	0.00
Used oil filter	0	0	0.00
Other	35	159,392	0.45
Total	Not Applicable	35,307,308	100

Landfill Capacity Information

Per Capita Disposal Rate

In 2017, approximately 35.31 million tons of waste was disposed in Texas MSW landfills. Using the 2017 state population estimate of 28,304,596, the average disposal rate in Texas was 6.84 pounds per person per day, which is slightly above the 2016 rate of 6.83 pounds. During this period, the state's population increased 1.6%. Population data were obtained from the U.S. Census Bureau's *Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017*, available at www.census.gov/data/tables/2017/demo/popest/counties-total.html.

As discussed in the *Waste Information* section of this report, the Texas definition of MSW includes construction or demolition waste and municipal wastewater treatment plant sludge. To provide a more complete representation of the state's remaining MSW landfill capacity, the Texas per capita disposal rate calculation includes all MSW wastes and authorized industrial wastes that were disposed in the state's MSW landfills.

If Texas had used the EPA definition of MSW for 2017, the average disposal rate would have been approximately 4.82 pounds per person per day.

Figure 3 displays a graphic representation of disposal amounts and average per capita disposal rates over time. For more detailed information, please see Table 7. *Historical Disposal and Capacity Data for Texas MSW Landfills*.

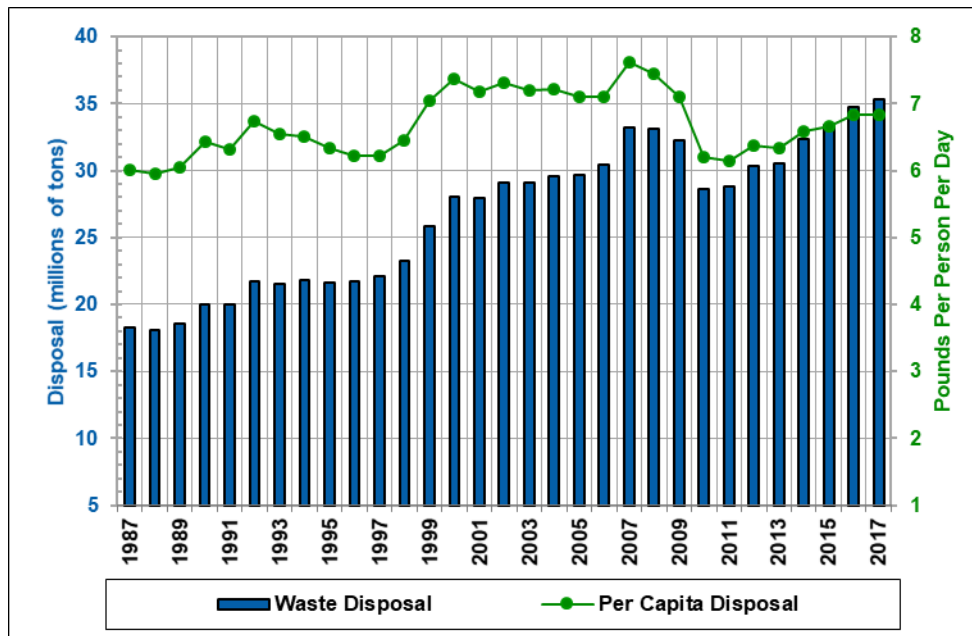


Figure 3. Total Tons and Per Capita Rate for MSW Disposal

Landfill Capacity

The total remaining MSW landfill capacity in the state at the end of 2017 was 2.83 billion cubic yards. Based on reported compaction rates, this volume would hold 1.93 billion tons of waste and serve for 55 years.

The remaining capacity for all active MSW landfills by facility type is summarized in Table 5. The analyses in this summary assume that the 2017 disposal rate of 35.31 million tons will continue each year, that no new landfill expansions or new permits will be issued, and that the 2017 population and disposal amounts will remain constant. Remaining capacity is not applicable to monofills, which are authorized through a renewable five-year permit by rule.

Table 5. Disposal Amounts and Remaining Capacity by Facility Type in 2017

Facility Type	Number of Landfills	Amount Disposed (tons)	Remaining Capacity (tons)	Remaining Capacity (Years)
I	97	31,562,161	1,810,671,364	57
IV	23	3,385,437	97,209,789	29
IAE	31	164,270	7,874,929	48
IVAE	21	34,523	2,708,079	78
IAE and IVAE	18	152,161	8,257,640	54
Monofill	6	8,756	151,052	Not Applicable
Totals	196	35,307,308	1,926,872,853	55

Growth and Attrition

According to submitted data, statewide net remaining tons capacity decreased by approximately 5.9 million tons or 0.3% from the 2016 capacity. Statewide remaining cubic yards capacity increased by approximately 19.9 million or 0.7% from the 2016 capacity. Remaining tons capacity for each landfill was calculated using the reported remaining cubic yards and compaction rate. A decrease in the statewide average compaction rate from 1,117 pounds of waste per cubic yard in 2016 to 1,087 pounds of waste per cubic yard in 2017 was a contributing factor in the decrease of the remaining tons capacity for 2017.

Statewide Distribution

In Texas, there are 24 Regional Planning Commissions, also known as Councils of Governments (COGs) that are responsible under Texas Health and Safety Code, Section 363.0615 for MSW management planning on a regional basis (Figure 4). Although remaining capacity was not evenly distributed, the state appeared to have an adequate reserve of MSW landfill capacity in 2017 (Table 6). The Central Texas COG (CTCOG 23) had the least amount of reserve capacity with 13 years.

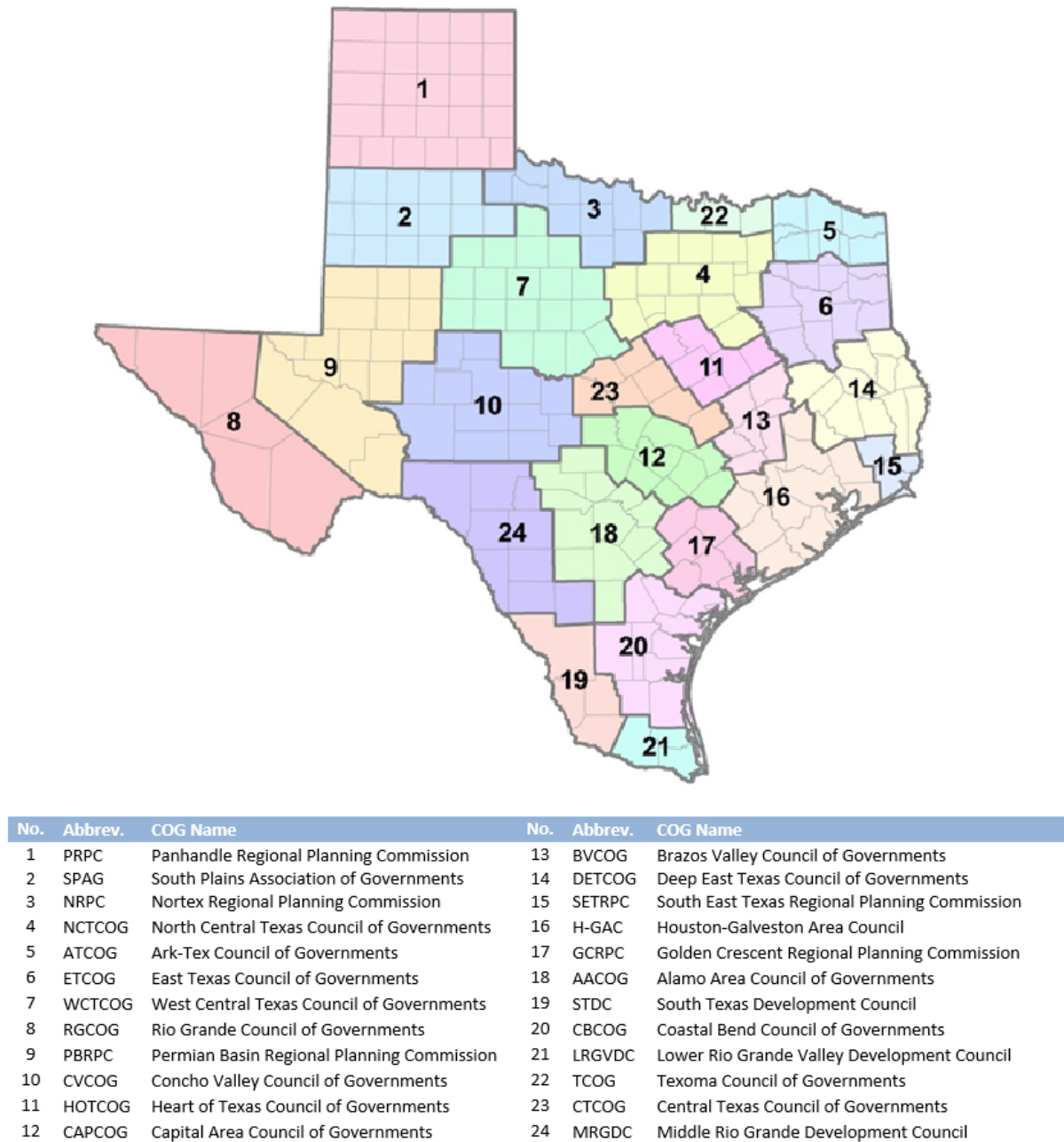


Figure 4. Texas Councils of Governments

Landfill Capacity Information

Table 6. Analysis of Disposal and Capacity Data for Texas COGs in 2017

COG	Landfill Count	Percent of Total Landfill Count	Tons Disposed	Percent of Total Tons Disposed in State	Population in COG Region	Pounds Disposed Per Person Per Day	Remaining Capacity in COG Region, in Tons	Percent of Remaining Capacity in State	Remaining Capacity in COG Region, in Years
1 PRPC	21	10.71	551,400	1.56	437,985	6.90	41,845,313	2.17	76
2 SPAG	21	10.71	545,976	1.55	434,744	6.88	85,437,124	4.43	156
3 NRPC	3	1.53	309,420	0.88	220,528	7.69	51,700,235	2.68	167
4 NCTCOG	21	10.71	10,694,433	30.29	7,518,902	7.79	415,523,055	21.56	39
5 ATCOG	3	1.53	443,200	1.26	283,772	8.56	66,264,547	3.44	150
6 ETCOG	4	2.04	653,536	1.85	860,334	4.16	108,822,740	5.65	167
7 WCTCOG	12	6.12	569,744	1.61	328,919	9.49	91,629,761	4.76	161
8 RGCOG	8	4.08	501,244	1.42	865,822	3.17	53,094,861	2.76	106
9 PBRPC	15	7.65	706,187	2.00	476,304	8.12	37,696,168	1.96	53
10 CVCOG	8	4.08	205,659	0.58	159,608	7.06	5,002,185	0.26	24
11 HOTCOG	4	2.04	671,798	1.90	366,026	10.06	39,323,170	2.04	59
12 CAPCOG	4	2.04	2,457,321	6.96	2,237,922	6.02	65,865,833	3.42	27
13 BVCOG	1	0.51	392,956	1.11	352,634	6.11	25,148,481	1.31	64
14 DETCOG	4	2.04	534,537	1.51	383,784	7.63	35,670,254	1.85	67
15 SETRPC	4	2.04	694,700	1.97	398,485	9.55	30,213,307	1.57	43
16 HGAC	27	13.78	9,106,967	25.79	7,064,712	7.06	328,558,267	17.05	36
17 GCRPC	1	0.51	152,074	0.43	197,376	4.22	5,975,550	0.31	39
18 AACOG	7	3.57	2,894,705	8.20	2,587,905	6.13	161,841,146	8.40	56
19 STDC	4	2.04	424,464	1.20	358,772	6.48	51,275,358	2.66	121
20 CBCOG	7	3.57	755,016	2.14	596,853	6.93	85,898,210	4.46	114
21 LRGVDC	5	2.55	1,235,104	3.50	1,305,970	5.18	110,595,594	5.74	90
22 TCOG	2	1.02	214,300	0.61	205,481	5.71	15,288,038	0.79	71
23 CTCOG	2	1.02	453,487	1.28	488,128	5.09	6,086,083	0.32	13
24 MRGDC	8	4.08	139,080	0.39	173,630	4.39	8,117,573	0.42	58
Totals	196	100	35,307,308	100	28,304,596	6.84 (average)	1,926,872,853	100	55 (average)

Table 7. Historical Disposal and Capacity Data for Texas MSW Landfills

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal Rate (Pounds per Person per Day)	Number of Active Landfills	Remaining Capacity (Cubic Yards)	Remaining Capacity (Tons)	Remaining Capacity (Years)
1988	18,114,295	16,668,639	5.95	750	1,162,374,628	377,771,754	21
1989	18,531,001	16,806,521	6.04	616	1,111,902,033	361,368,161	20
1990	19,969,615	16,986,510	6.44	493	1,124,524,795	393,583,678	20
1991	19,973,622	17,349,000	6.31	405	1,183,699,041	414,294,664	21
1992	21,675,661	17,655,650	6.73	345	1,193,233,770	440,730,048	20
1993	21,517,063	18,031,484	6.54	289	1,205,635,627	456,161,796	21
1994	21,808,274	18,378,185	6.50	199	1,269,565,453	483,752,986	22
1995	21,639,678	18,723,991	6.33	191	1,071,520,039	523,633,365	24
1996	21,738,137	19,128,261	6.23	186	1,023,799,597	554,095,949	26
1997	22,094,777	19,439,337	6.23	181	1,169,628,669	659,694,441	30
1998	23,259,425	19,759,614	6.45	184	1,300,609,247	716,302,147	31
1999	25,791,066	20,044,141	7.05	179	1,557,349,331	862,778,821	33
2000	28,034,517	20,851,820	7.37	183	1,633,321,824	904,891,939	32
2001	27,938,751	21,235,018	7.18	186	1,710,713,869	939,383,633	34
2002	29,061,966	21,779,893	7.31	190	1,691,970,227	971,314,962	33
2003	29,073,315	22,118,509	7.20	184	1,506,807,849	963,972,887	33
2004	29,581,785	22,490,022	7.21	189	1,826,587,075	1,134,462,509	37
2005	29,671,151	22,859,968	7.11	186	1,870,868,394	1,217,845,562	41
2006	30,453,702	23,507,783	7.10	187	2,110,807,960	1,366,311,822	45
2007	33,183,488	23,904,380	7.61	188	2,158,501,232	1,403,592,411	42
2008	33,078,196	24,326,974	7.45	191	2,167,272,920	1,439,621,096	44
2009	32,264,262	24,782,302	7.13	190	2,351,154,567	1,567,806,257	49
2010	28,637,988	25,213,445	6.22	190	2,483,194,375	1,722,333,910	60
2011	28,817,066	25,674,681	6.15	193	2,636,321,089	1,830,882,782	64
2012	30,309,069	26,059,203	6.37	195	2,632,196,651	1,739,952,891	57
2013	30,569,741	26,448,193	6.33	197	2,786,237,795	1,880,790,197	62
2014	32,371,574	26,956,958	6.58	198	2,867,269,225	1,939,340,177	60
2015	33,449,560	27,469,114	6.67	199	2,789,966,234	1,865,784,374	56
2016	34,732,251	27,862,596	6.83	195	2,814,101,889	1,932,723,830	56
2017	35,307,308	28,304,596	6.84	196	2,833,951,162	1,926,872,853	55

Trends

Landfill Closures

In 1987, there were 763 authorized MSW landfills in Texas accepting waste and by 1994, there were only 199 (Figure 5). The federal Resource Conservation and Recovery Act (RCRA) Subtitle D standards established in October 1991 required MSW landfills to upgrade designs, operating practices, and closure specifications; restricted the location of MSW landfills; and required MSW landfills to install liners and implement groundwater monitoring. The new federal requirements were a contributing factor in the closure of landfills across the state in the early 1990s.

Reserve Capacity

Reserve capacity (expressed in terms of years) is the remaining capacity (expressed in terms of tons) divided by the waste disposal rate (tons disposed) for the current reporting year. From 1986 to the mid-1990s, the state's reserve capacity for disposal in MSW landfills was less than 22 years. Beginning in 2004, the capacity steadily increased with a maximum of 64 years reached in 2011. The current reserve capacity for disposal is approximately 55 years (Table 7 and Figure 5). Expansion in the available volume of permitted disposal capacity, improvements in compaction, and diversion, and the state's economic activity are probable contributing factors affecting the reserve capacity trend. For example, the average compaction rate in 1986 was approximately 650 pounds of waste per cubic yard; in 2000 the average rate was approximately 1,000 pounds per cubic yard; and in 2017 the calculated average compaction rate was 1,087 pounds per cubic yard.

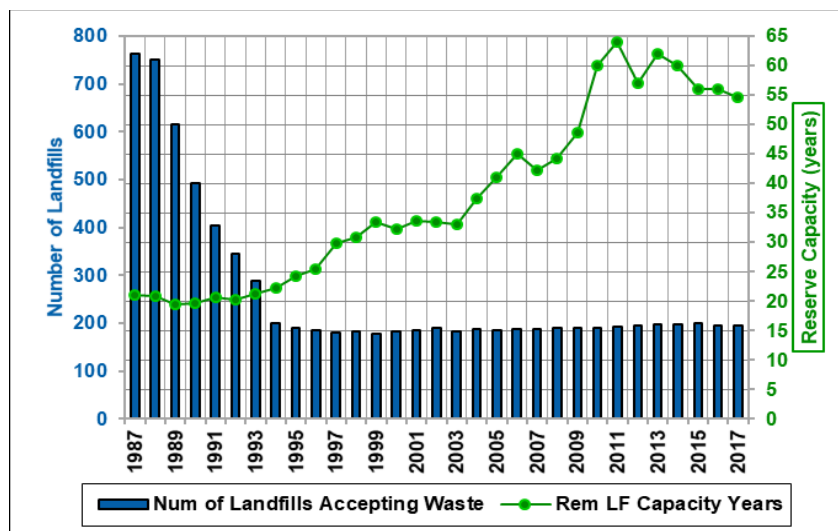


Figure 5. Number of MSW Landfills and Reserve Capacity

Landfill Size

In addition to improvements in operations at MSW landfills, the size of landfills has continued to increase. In 1986, the statewide average landfill size was 50 acres with an average height of 13 feet. In 2017, the statewide average landfill size was 246 acres with an average height of 86 feet. Landfill height was calculated as the difference between the reported site permanent benchmark elevation and final cover elevation. All calculations exclude monofills.

The breakdown of the permitted heights for MSW landfills in 2017 is presented in Table 8. Two landfills had a permitted height over 300 feet; Abilene Regional Landfill (Permit No. 1469A; WCTCOG 7) and Greenwood Farms (Permit No. 1972A; ETCOG 6).

Table 8. Permitted Heights for MSW Landfills in 2017 (excludes monofills)

Permitted Height	Number of Landfills	Percent of Landfills
<100 ft	116	61
100 ft – 200 ft	53	28
200 ft – 300 ft	19	10
>300 ft	2	1

Counties Served

The 196 active MSW landfills in the state reported the number of counties they served in 2017 (Table 9). Service to more than one county was provided by 125 landfills (64%). Table 10 provides a breakdown of the number of active landfills by county. Counties with a change in the number of landfills from 2016 are indicated. Counties with monofills are also indicated.

Table 9. Number of Texas Counties Served by MSW Landfills in 2017

Number of Counties Served	Number of Landfills
1	71
2 – 5	56
6 – 10	50
11 – 15	8
16 – 20	6
>20	5

Table 10. Number of Active MSW Landfills by County in 2017

County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills
Anderson	0	Caldwell	0	Crockett	0	Foard	0	Haskell	2 (monofill)
Andrews	1	Calhoun	0	Crosby	0	Fort Bend	3	Hays	0
Angelina	1	Callahan	0 (decrease)	Culberson	0	Franklin	0	Hemphill	0
Aransas	0	Cameron	1	Dallam	1	Freestone	0	Henderson	0
Archer	0	Camp	0	Dallas	4	Frio	0	Hidalgo	4
Armstrong	1	Carson	1	Dawson	1	Gaines	1	Hill	1
Atascosa	0	Cass	0	Deaf Smith	1	Galveston	3	Hockley	2
Austin	0	Castro	1	Delta	0	Garza	1	Hood	0
Bailey	2	Chambers	2	Denton	4	Gillespie	1	Hopkins	0
Bandera	0	Cherokee	1	DeWitt	0	Glasscock	1	Houston	0
Bastrop	0	Childress	1	Dickens	1 (increase) (monofill)	Goliad	0	Howard	1
Baylor	0	Clay	0	Dimmit	1	Gonzales	0	Hudspeth	2
Bee	0	Cochran	1	Donley	0	Gray	3	Hunt	1
Bell	1	Coke	0	Duval	1	Grayson	2	Hutchinson	0
Bexar	2	Coleman	1	Eastland	0	Gregg	1	Irion	0
Blanco	0	Collin	1	Ector	1	Grimes	1	Jack	0
Borden	0	Collingsworth	1	Edwards	0	Guadalupe	1	Jackson	0
Bosque	0	Colorado	1	El Paso	3	Hale	1	Jasper	0
Bowie	1	Comal	1	Ellis	3	Hall	1	Jeff Davis	0
Brazoria	2	Comanche	0	Erath	1	Hamilton	0	Jefferson	3
Brazos	0	Concho	0	Falls	0	Hansford	1	Jim Hogg	0
Brewster	2	Cooke	0	Fannin	0	Hardeman	0 (decrease)	Jim Wells	1
Briscoe	0	Coryell	1	Fayette	0	Hardin	1	Johnson	2
Brooks	1	Cottle	1 (increase)	Fisher	0	Harris	14	Jones	3 (monofill)
Brown	1	Crane	1	Floyd	1	Harrison	0	Karnes	0
Burleson	0					Hartley	0		
Burnet	0								

Trends

County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills	County	Number of Landfills
Kaufman	0	Marion	0	Oldham	1	San Patricio	0	Tyler	0
Kendall	0	Martin	1	Orange	0	San Saba	0	Upshur	0
Kenedy	0	Mason	1	Palo Pinto	0	Schleicher	2	Upton	2
Kent	0	Matagorda	0	Panola	0	Scurry	1	Uvalde	1
Kerr	1	Maverick	2	Parker	1	Shackelford	0	Val Verde	1
Kimble	1	McCulloch	1	Parmer	0	Shelby	0	Van Zandt	0
King	0	McLennan	2	Pecos	1	Sherman	0	Victoria	1
Kinney	1	McMullen	1	Polk	1	Smith	1	Walker	0
Kleberg	1	Medina	0	Potter	1	Somervell	0	Waller	0
Knox	0	Menard	1	Presidio	1	Starr	1	Ward	1
La Salle	0	Midland	1	Rains	0	Stephens	1 (increase) (monofill)	Washington	0
Lamar	1	Milam	0	Randall	1			Webb	2
Lamb	4	Mills	0	Reagan	1	Sterling	0	Wharton	0
Lampasas	0	Mitchell	1	Real	0	Stonewall	0	Wheeler	1
Lavaca	0	Montague	0	Red River	0	Sutton	0	Wichita	2
Lee	0	Montgomery	2 (increase)	Reeves	1	Swisher	1	Wilbarger	0
Leon	0			Refugio	0	Tarrant	3	Willacy	0
Liberty	0	Moore	2	Roberts	0	Taylor	0	Williamson	1
Limestone	1	Morris	0	Robertson	0	Terrell	1	Wilson	0
Lipscomb	1	Motley	1	Rockwall	0	Terry	2	Winkler	0
Live Oak	0	Nacogdoches	1	Runnels	1 (monofill)	Throckmorton	0	Wise	0
Llano	0	Navarro	1			Titus	1	Wood	0
Loving	0	Newton	1	Rusk	1	Tom Green	1	Yoakum	1
Lubbock	3	Nolan	1	Sabine	0	Travis	3 (decrease)	Young	0
Lynn	1	Nueces	3	San Augustine	0			Zapata	1
Madison	0	Ochiltree	1	San Jacinto	0	Trinity	0	Zavala	2

Materials Diverted from Disposal at MSW Landfills

Overview

Public and private programs for reducing, reusing, and recycling assist in preserving disposal capacity in MSW landfills. Every day throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, electronics, scrap tires, organic materials, and numerous other materials are diverted from being disposed of at landfills. Information about recycling initiatives for individuals, businesses, and local governments can be found on TCEQ's website at <www.tceq.texas.gov/p2/recycle/recycling.html>. Information about how Texans can get involved in protecting the state's resources, including ways to reduce the amount of waste they generate, can be found on the *Take Care of Texas* website at <www.takecareoftexas.org>.

In 2015, the Texas Legislature directed TCEQ to conduct a study on the current and potential economic impacts of recycling. According to the study, approximately 9.2 million tons of MSW designated material were recycled in Texas in 2015 (the reporting period for the study). The overall impact of recycling MSW on the Texas economy exceeded \$3.3 billion. The results of the study were published in *The Study on the Economic Impacts of Recycling*, which can be found at <www.tceq.texas.gov/p2/recycle/study-on-the-economic-impacts-of-recycling>.

Electronics

Television (TV) recyclers are required to report the total weight or volume of covered television equipment received, recycled, and disposed of in the preceding calendar year (January 1 through December 31) on an annual basis. In 2017, approximately 20.1 million pounds were received, 18.2 million pounds were recycled, and 63,860 pounds were disposed of, as reported by 10 active TV recyclers.

TV and computer equipment manufacturers are also required to report the amount of equipment collected, recycled, and reused. Information about the TV and computer recycling programs, including amounts reported, can be found on the TCEQ's website at <TexasRecyclesTVs.org> and <TexasRecyclesComputers.org>, respectively.

Scrap Tires

Scrap tires can be a valuable commodity when properly managed and used to produce various products such as crumb rubber, mulch, and thermal insulators; utilized for civil engineering projects; or processed as a fuel source. In Texas, facility owners or operators that transport or process scrap and used tires are required to submit an annual report for the preceding calendar year. In 2017, approximately 43.7 million used and scrap tires were reported as managed by transporters, storage sites, and scrap tire processing facilities.

Information about the scrap tire management program, including the 2017 annual report summary, can be found on the TCEQ's website at www.tceq.texas.gov/tires/tires-reporting.

Other Diverted Materials

Some materials accepted at permitted and registered MSW facilities are diverted from the solid waste stream as recyclable materials. In 2017, over 2.1 million tons of materials were reported as diverted from MSW facilities for recycling or reuse: 1,225,614 tons diverted at landfills, as reported by 103 landfills; and 883,495 tons diverted at processing facilities, as reported by 71 facilities. Transfer stations represented most of the processing facilities diverting recyclable materials.

The various material streams and estimated amounts reported as diverted by MSW facilities in 2017 are presented in Table 11. The “Yard Trimmings or Brush” and the “Paper or Cardboard” materials categories represented the largest quantities of materials diverted. The category of “Unclassified Materials” consisted mainly of residential comingled recyclables, but also included items such as batteries, food waste, and miscellaneous building materials. It is noted that data in the table represent only the amount of recyclable material leaving an MSW disposal or processing facility and may or may not be included in the numbers reported by recycling facilities, such as computer recyclers, TV recyclers, and scrap tire processors. Descriptions for several of the material types listed in Table 11 are provided in the MSW Waste and Material Type Descriptions *MSW Waste and Material Type Descriptions* section of this report.

Materials Diverted from Disposal at MSW Landfills

Table 11. Types and Amounts of Diverted Materials in 2017

Material Type	Tons Diverted	% of Total Tons Diverted
Yard Trimmings or Brush	729,937	34.61
Metal	35,580	1.69
Glass	29,894	1.42
Plastics	20,062	0.95
Paper or Cardboard	214,054	10.15
Construction or Demolition Material	729,355	34.58
Electronic Equipment	690	0.03
White Goods	3,175	0.15
Tires	4,954	0.23
Automotive	2	<0.01
Shingles	2,475	0.12
Used Oil	599	0.03
Unclassified Materials	338,332	16.04
Total	2,109,109	100

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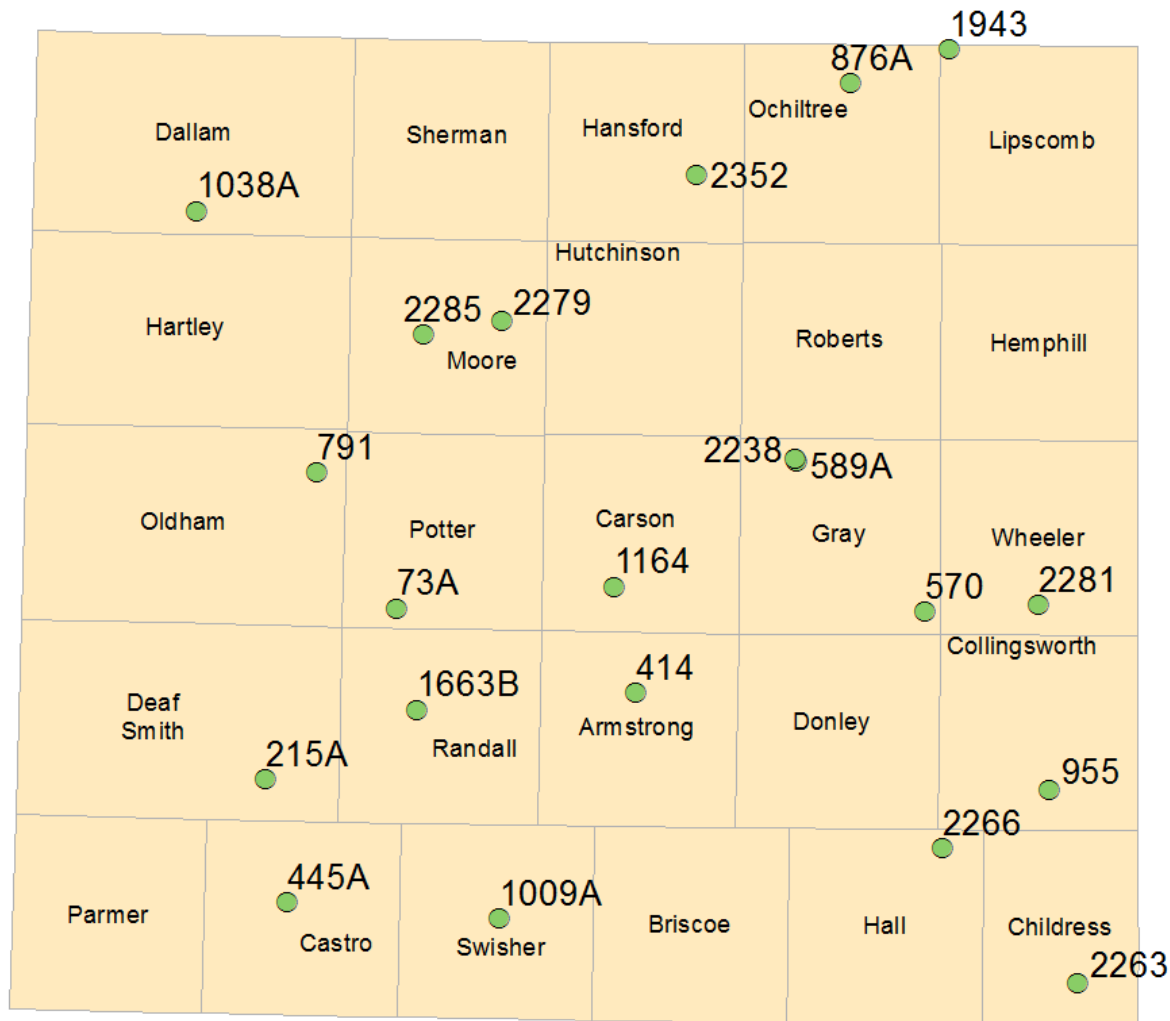
Facility Data for MSW Landfills

The maps and tables included in this section represent the active MSW landfill data reported for 2017. The maps and tables are organized by COG region and county. All values were rounded to the nearest whole number.

Key for Landfill Data Tables

Column Heading	Description
Type	Facility types are identified by Arabic numbers with applicable abbreviations that are used in the TCEQ's database (e.g., 1AE). AE is abbreviation for arid exempt.
2017 Tons	Total tons landfilled in 2017
Rem Yds	Remaining landfill capacity in cubic yards
Rate	Reported compaction rate at the landfill in pounds per cubic yards
Rem Tons	Remaining landfill capacity in equivalent tons (based on reported landfill compaction rate)
Rem Yrs	Remaining landfill capacity in years (data provided in a facility's annual report that is an estimate based on the landfill's permitted volume for waste capacity and facility operations). This measure is not applicable to monofills, which are authorized through a renewable five-year permit by rule.

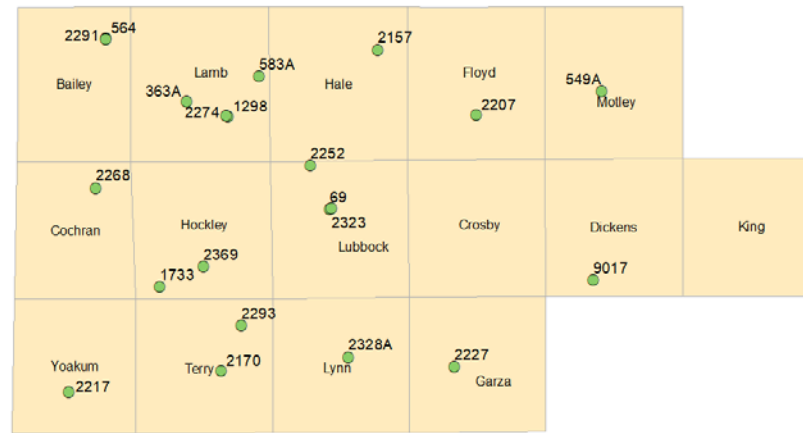
COG 1: Panhandle Regional Planning Commission—Landfill Locations



COG 1: Panhandle Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
1	414	Claude Armstrong County Landfill	Armstrong	4AE	2,148	206,237	500	51,559	23
1	1164	City of Panhandle Landfill	Carson	1AE	2,555	451,852	550	124,259	49
1	445A	City of Dimmitt Landfill	Castro	1AE	5,079	1,136,908	750	426,341	84
1	2263	City of Childress Landfill	Childress	1AE&4AE	2,805	2,349,474	800	939,790	119
1	955	City of Wellington Landfill	Collingsworth	1AE	3,707	466,453	800	186,581	50
1	1038A	City of Dalhart Landfill	Dallam	1AE&4AE	11,816	1,190,829	785	467,401	40
1	215A	City of Hereford Landfill	Deaf Smith	4AE	3,390	265,199	850	112,710	33
1	570	City of McLean Landfill	Gray	1AE	849	541,697	800	216,679	12
1	589A	City of Pampa Landfill	Gray	4AE	1,496	443,624	1,000	221,812	148
1	2238	City of Pampa Landfill	Gray	1	53,166	8,410,464	1,300	5,466,802	102
1	2266	City of Memphis Landfill	Hall	1AE	7,088	912,514	800	365,006	51
1	2352	City of Spearman Landfill	Hansford	1AE	4,585	798,194	1,000	399,097	2
1	1943	City of Booker Landfill	Lipscomb	1AE	1,607	431,269	850	183,289	52
1	2279	City of Dumas Landfill	Moore	1	15,022	8,125,276	1,000	4,062,638	113
1	2285	City of Dumas Landfill	Moore	4AE	6,717	224,877	800	89,951	3
1	876A	Perryton Landfill	Ochiltree	1AE	6,907	1,313,343	890	584,438	86
1	791	Cal Farleys Boys Ranch Landfill	Oldham	4AE	500	121,200	400	24,240	44
1	73A	City of Amarillo Landfill	Potter	1	238,360	64,165,864	800	25,666,346	108
1	1663B	Southwest Landfill TX	Randall	1	173,954	2,368,290	1,553	1,838,977	9
1	1009A	City of Tulia Landfill	Swisher	1AE&4AE	5,921	732,439	850	311,287	47
1	2281	City of Shamrock Landfill	Wheeler	1AE	3,728	265,275	800	106,110	28

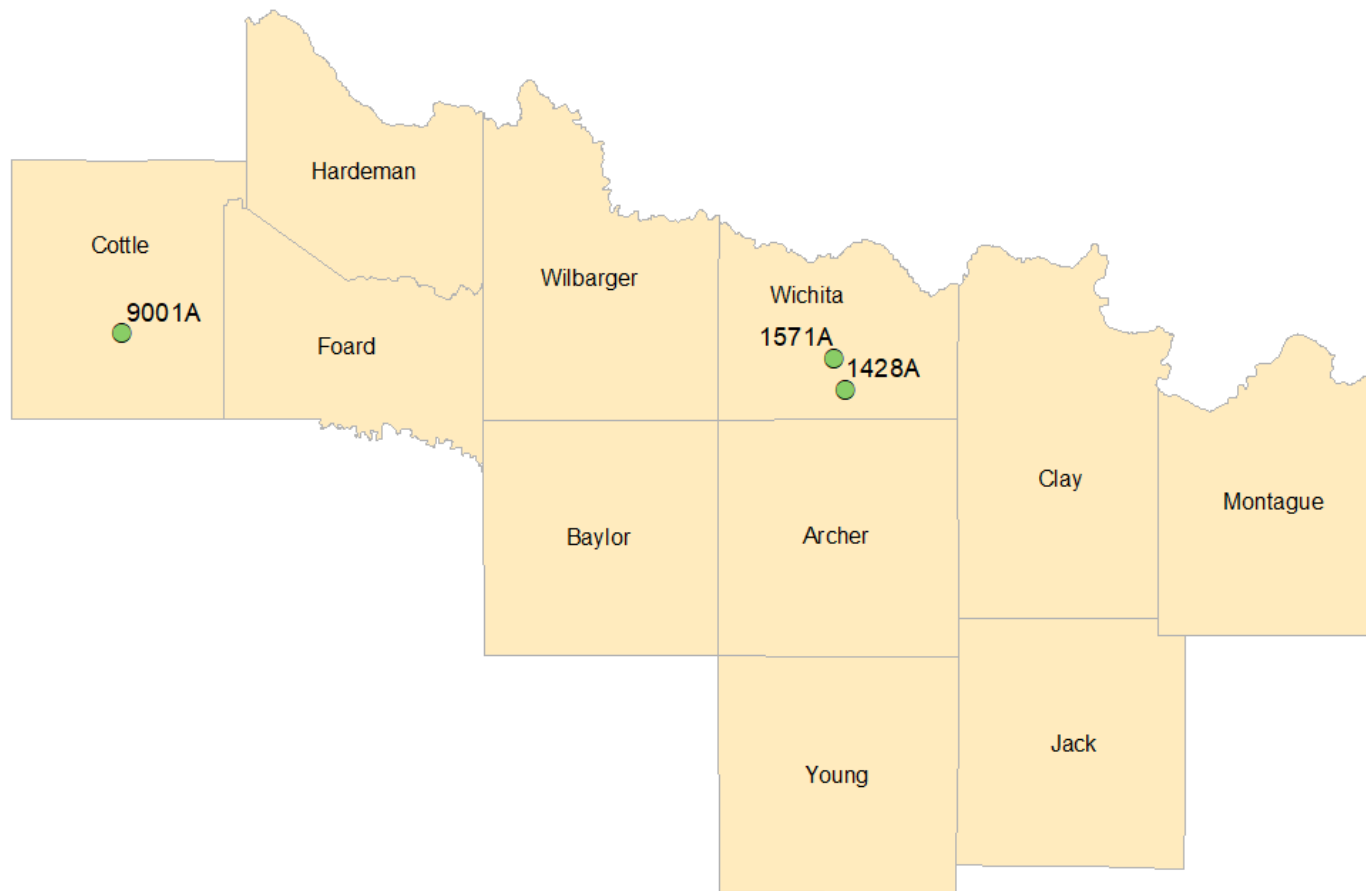
COG 2: South Plains Association of Governments—Landfill Locations



COG 2: South Plains Association of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
2	564	City of Muleshoe Landfill	Bailey	4AE	2,637	146,571	800	58,628	10
2	2291	City of Muleshoe Landfill	Bailey	1AE	7,267	413,014	800	165,206	22
2	2268	Morton Landfill	Cochran	4AE	89	803,903	400	160,781	97
2	9017	City of Spur House Disposal Site	Dickens	Monofill	267	32,000	400	6,720	N/A
2	2207	City of Floydada Landfill	Floyd	1AE&4AE	6,459	806,251	830	334,594	62
2	2227	City of Post Landfill	Garza	1AE&4AE	4,560	112,621	650	36,602	7
2	2157	City of Plainview Landfill	Hale	1	28,451	9,865,334	964	4,755,091	167
2	1733	City of Sundown Landfill	Hockley	4AE	153	221,683	850	94,215	80
2	2369	City of Levelland Landfill	Hockley	1AE& 4AE	10,781	4,766,600	588	1,401,380	130
2	363A	City of Amherst Landfill	Lamb	4AE	71	49,648	400	9,930	140
2	583A	City of Olton Landfill	Lamb	1AE	7,332	782,566	666	260,594	31
2	1298	City of Littlefield Landfill	Lamb	4AE	353	279,446	1,400	195,612	10
2	2274	Littlefield Municipal Landfill	Lamb	1AE&4AE	7,117	1,236,312	1,400	865,418	94
2	69	City of Lubbock Landfill	Lubbock	1	21,418	466,447	731	170,486	8
2	2252	West Texas Regional Disposal Facility	Lubbock	1	291,127	105,205,861	1,370	72,066,015	248
2	2323	C & D Waste Landfill	Lubbock	4	110,324	2,278,213	666	758,645	28
2	2328A	City of Tahoka Landfill	Lynn	1AE	10,262	814,622	850	346,214	49
2	549A	City of Matador Landfill	Motley	1AE	2,591	470,749	968	227,843	88
2	2170	City of Brownfield Landfill	Terry	1	13,797	4,337,554	1,087	2,357,461	171
2	2293	City of Meadow Landfill	Terry	1AE	11,402	1,038,187	800	415,275	22
2	2217	Yoakum County Landfill	Yoakum	1AE&4AE	9,518	1,876,036	800	750,414	79

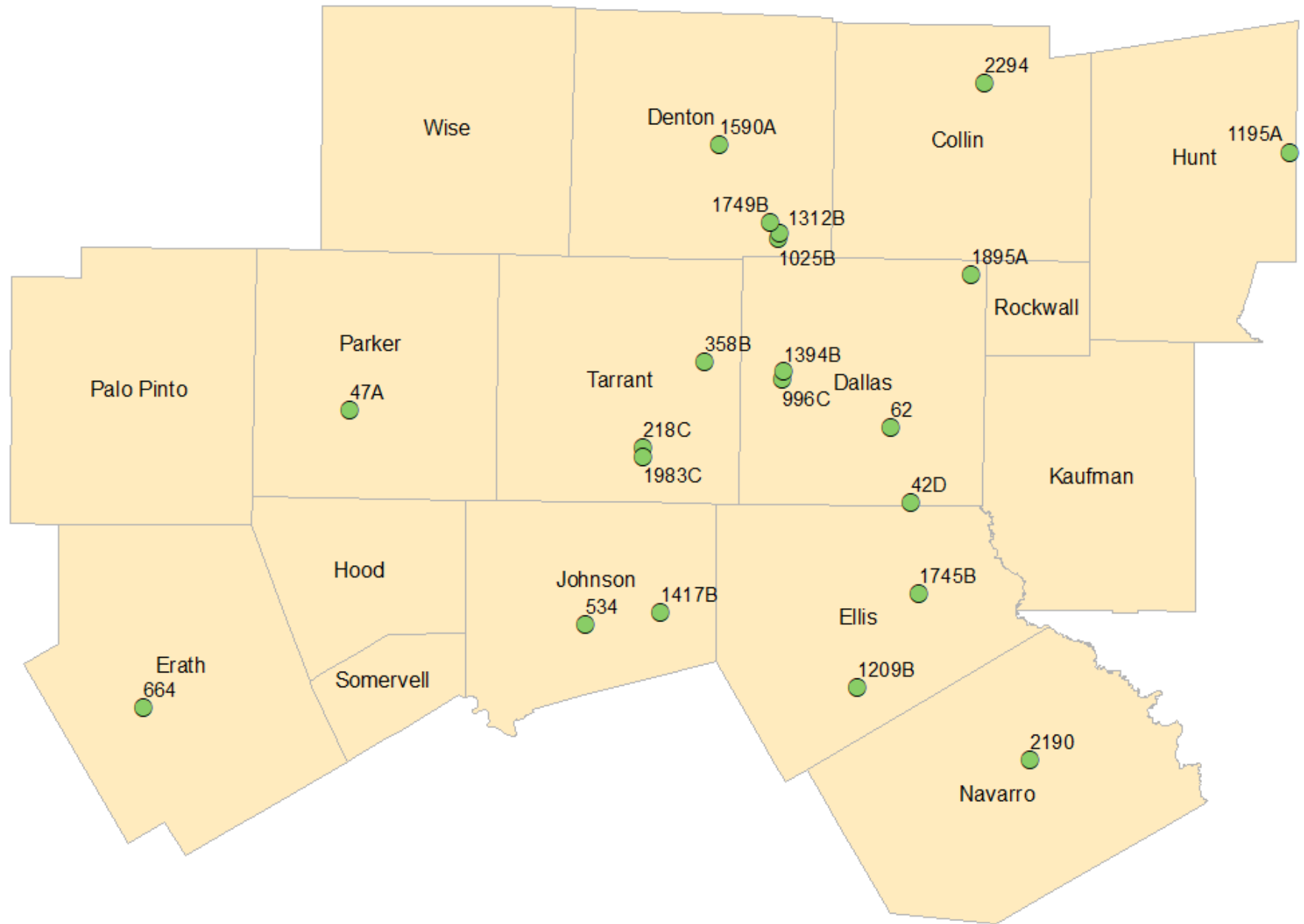
COG 3: Nortex Regional Planning Commission—Landfill Locations



COG 3: Nortex Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
3	9001A	City of Paducah	Cottle	MONOFILL	400	7,957	400	1,671	N/A
3	1428A	City of Wichita Falls Landfill	Wichita	1	136,911	68,275,169	1,040	35,503,088	260
3	1571A	IESI Buffalo Creek Landfill	Wichita	1	172,109	26,992,460	1,200	16,195,476	90

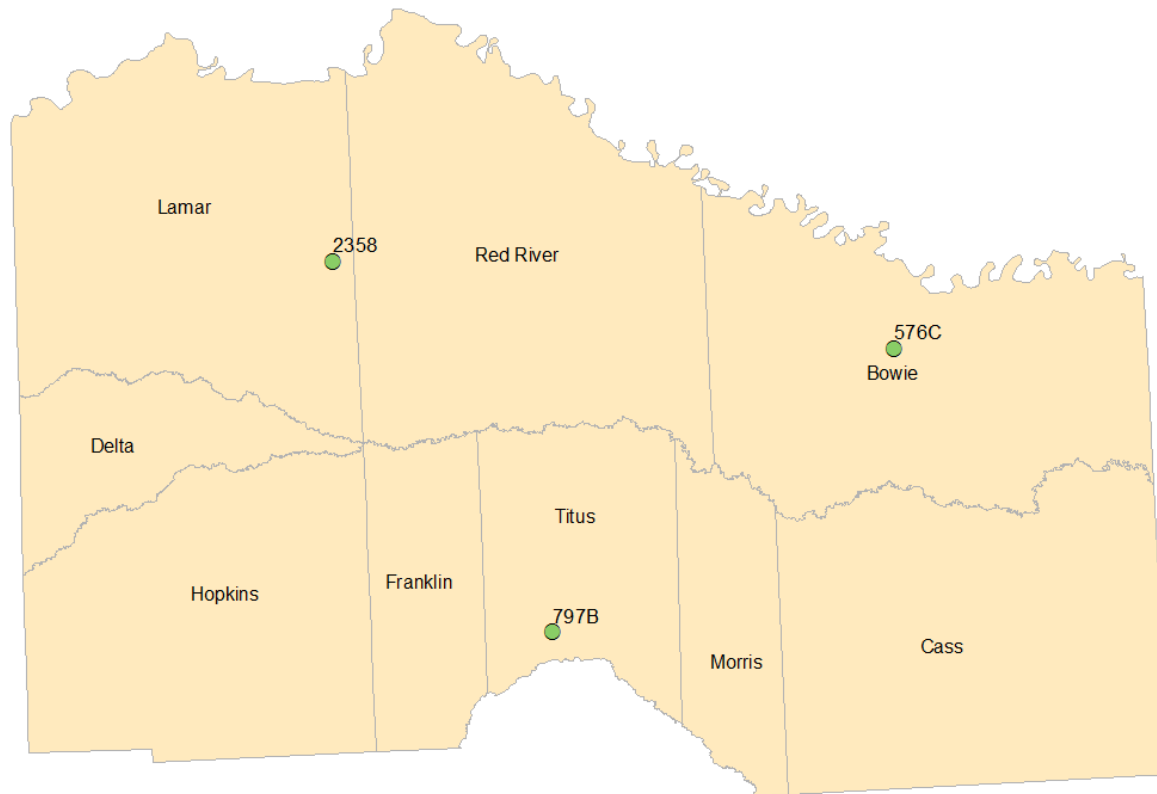
COG 4: North Central Texas Council of Governments—Landfill Locations



COG 4: North Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
4	2294	121 Regional Disposal Facility	Collin	1	1,008,033	118,151,738	1,572	92,867,266	92
4	62	City of Dallas McCommas Bluff Landfill	Dallas	1	1,887,251	80,696,563	1,600	64,557,250	32
4	996C	City of Grand Prairie Landfill	Dallas	1	222,822	11,174,696	1,040	5,810,842	26
4	1394B	Hunter Ferrell Landfill	Dallas	1	200,119	13,098,243	1,413	9,253,909	46
4	1895A	Charles M Hinton Jr Regional Landfill	Dallas	1	524,195	30,888,671	1,441	22,255,287	45
4	1025B	DFW Recycling and Disposal Facility	Denton	1	1,580,118	7,334,679	1,740	6,381,171	4
4	1312B	Camelot Landfill	Denton	1	354,845	35,153,198	1,366	24,009,634	68
4	1590A	City of Denton Landfill	Denton	1	268,000	9,332,996	1,099	5,128,481	18
4	1749B	Lewisville Landfill	Denton	4	270,958	20,416,139	1,698	17,333,302	60
4	42D	Waste Management Skyline Landfill	Ellis	1	1,234,826	44,781,880	1,440	32,242,954	28
4	1209B	CSC Disposal and Landfill	Ellis	1	25	30,963,997	1,110	17,185,018	100
4	1745B	Ellis County Landfill	Ellis	1	177,334	39,263,961	1,931	37,909,354	171
4	664	City of Stephenville Landfill	Erath	4	12,635	821,606	1,200	492,964	64
4	1195A	Republic Maloy Landfill	Hunt	1	127,320	5,298,819	1,258	3,332,957	23
4	534	City of Cleburne Landfill	Johnson	1	729	17,839	1,000	8,920	12
4	1417B	IESI Turkey Creek Landfill	Johnson	1	601,692	6,930,739	1,457	5,049,043	9
4	2190	City of Corsicana Landfill	Navarro	1	102,860	22,931,244	1,139	13,059,343	133
4	47A	IESI Weatherford Landfill	Parker	1	198,594	830,321	1,310	543,860	3
4	218C	City of Fort Worth South East Landfill	Tarrant	1	557,081	23,266,971	1,417	16,484,649	30
4	358B	City of Arlington Landfill	Tarrant	1	997,520	49,384,553	1,524	37,631,029	33
4	1983C	IESI Fort Worth C and D Landfill	Tarrant	4	367,477	8,101,265	984	3,985,822	11

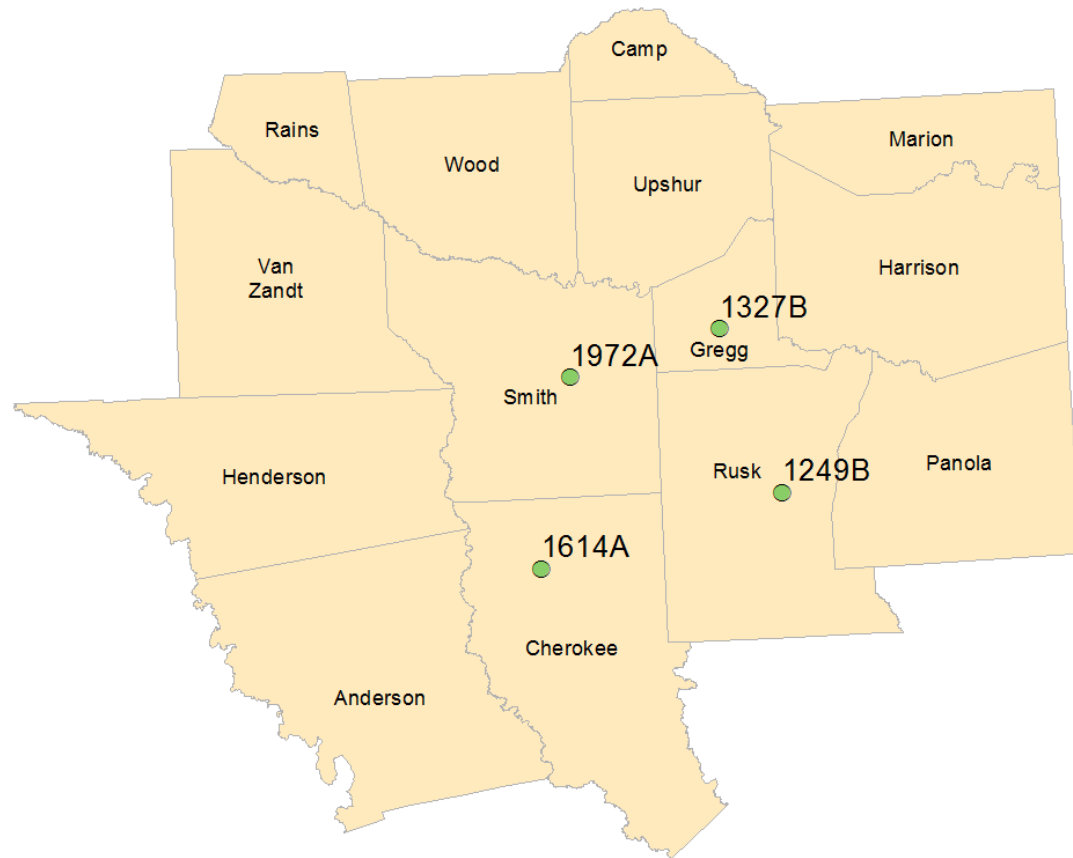
COG 5: Ark-Tex Council of Governments—Landfill Locations



COG 5: Ark-Tex Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
5	576C	New Boston Landfill	Bowie	1	134,476	10,717,156	1,180	6,323,122	47
5	2358	Blossom Prairie Landfill	Lamar	1	214,681	75,354,221	1,097	41,331,790	193
5	797B	Pleasant Oaks Landfill	Titus	1	94,043	19,558,208	1,903	18,609,635	168

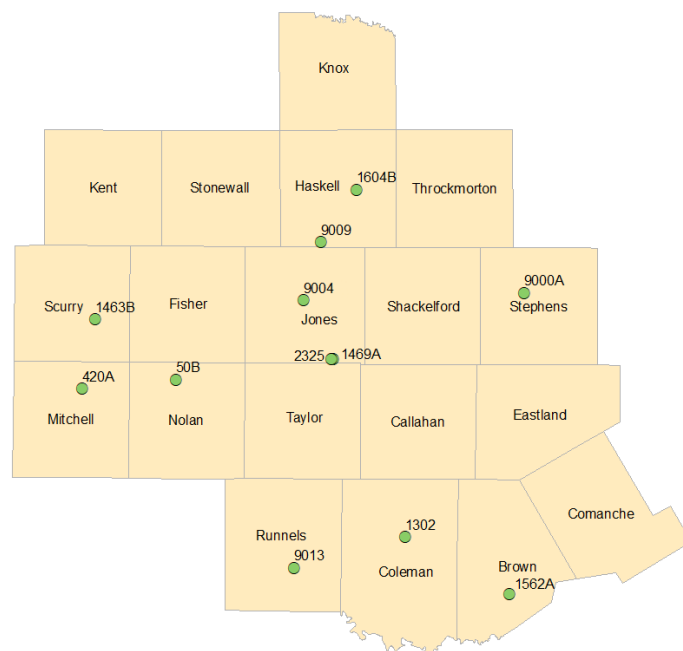
COG 6: East Texas Council of Governments—Landfill Locations



COG 6: East Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
6	1614A	Royal Oaks Landfill	Cherokee	1	87,688	2,184,382	1,814	1,981,234	25
6	1327B	Pinehill Landfill	Gregg	1	196,941	16,266,964	1,972	16,039,227	75
6	1249B	IESI East Texas Regional Landfill	Rusk	1	154,812	9,206,780	1,200	5,524,068	38
6	1972A	Greenwood Farms Landfill	Smith	1	214,095	105,022,427	1,624	85,278,211	338

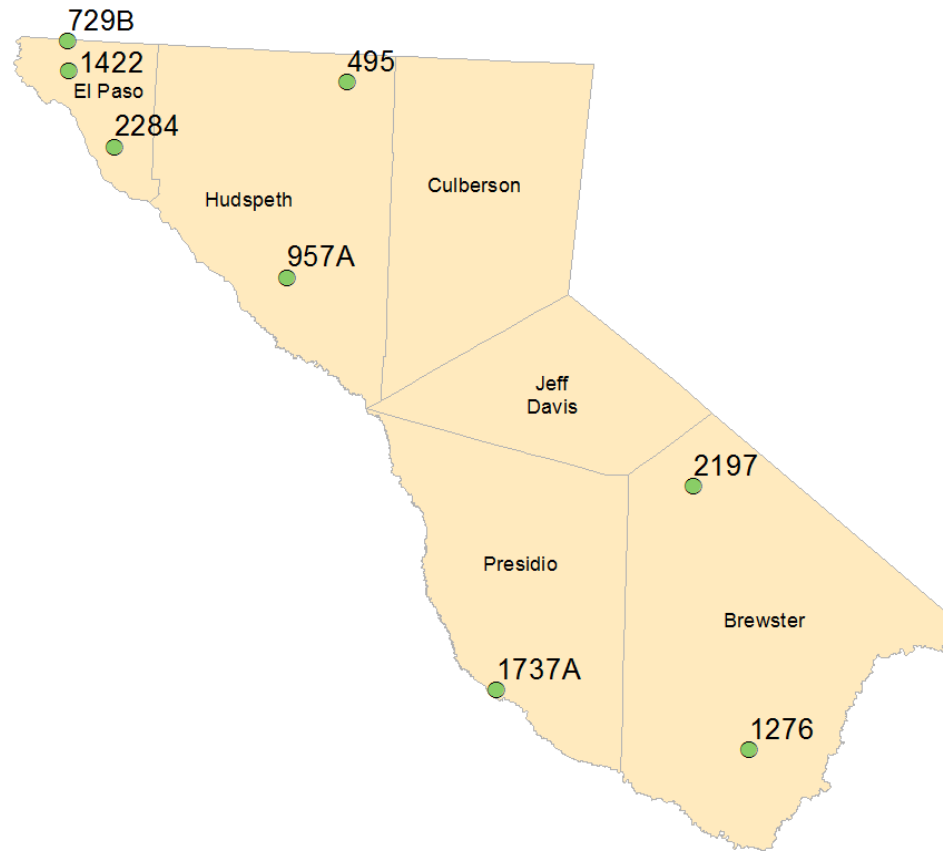
COG 7: West Central Texas Council of Governments—Landfill Locations



COG 7: West Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
7	1562A	Brownwood Regional Landfill	Brown	1	98,290	17,345,030	1,100	9,539,767	97
7	1302	City of Coleman Landfill	Coleman	4AE	34	12,851	500	3,213	32
7	1604B	City of Haskell Landfill	Haskell	1AE	11,009	710,586	700	248,705	8
7	9009	City of Stamford Building Demolition Landfill	Haskell	MONOFILL	18	103,155	400	21,663	0
7	1469A	Abilene Landfill	Jones	1	273,956	88,346,821	1,399	61,798,601	226
7	2325	Abilene Environmental Landfill	Jones	1	123,690	18,424,602	1,600	14,739,682	68
7	9004	City of Anson Abandoned and Nuisance Building Disposal Site	Jones	MONOFILL	1,220	354,185	400	74,379	N/A
7	420A	Colorado City Municipal Landfill	Mitchell	1AE&4AE	10,218	191,692	700	67,092	5
7	50B	City of Sweetwater Landfill	Nolan	4AE	4,275	113,841	400	22,768	1
7	9013	City of Ballinger Abandoned Building Landfill	Runnels	MONOFILL	400	44,065	400	9,254	N/A
7	1463B	City of Snyder Landfill	Scurry	1	40,183	10,134,544	1,000	5,067,272	126
7	9000A	City of Breckenridge Monofill	Stephens	Monofill	6,452	177,933	400	37,366	N/A

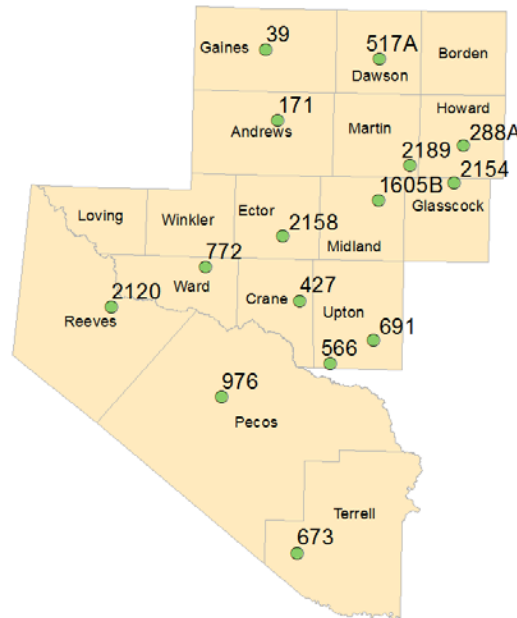
COG 8: Rio Grande Council of Governments—Landfill Locations



COG 8: Rio Grande Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
8	1276	Panther Junction Landfill	Brewster	1AE	449	95,285	750	35,732	7
8	2197	City of Alpine Landfill	Brewster	1AE	14,721	2,971,358	329	488,788	39
8	729B	City of El Paso Landfill	El Paso	1	2	63,469,313	1,300	41,255,053	39
8	1422	Fort Bliss Landfill	El Paso	1	1	59,252	80	2,370	39
8	2284	Greater El Paso Landfill	El Paso	1	474,043	17,632,437	1,200	10,579,462	20
8	495	Hudspeth County Dell City Landfill	Hudspeth	1AE&4AE	1,225	190,857	850	81,114	18
8	957A	Hudspeth County Sierra Blanca	Hudspeth	1AE&4AE	5,261	1,258,799	850	534,990	60
8	1737A	City of Presidio Landfill	Presidio	1AE	5,542	586,762	400	117,352	20

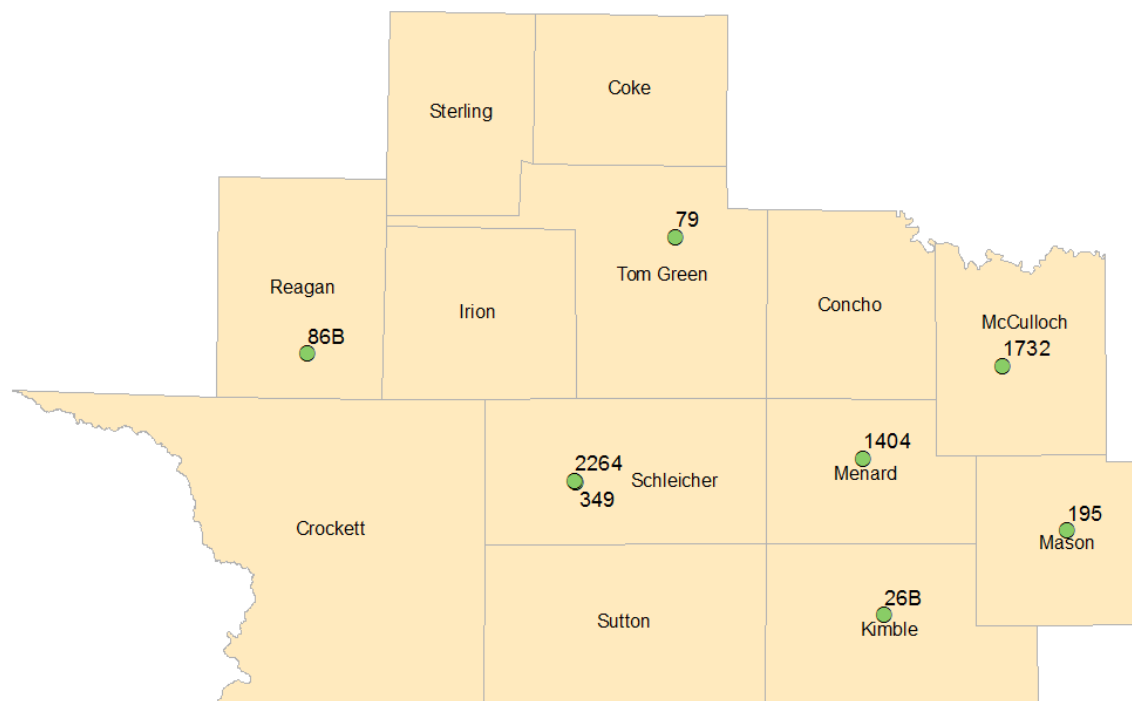
COG 9: Permian Basin Regional Planning Commission—Landfill Locations



COG 9: Permian Basin Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
9	171	City of Andrews Landfill	Andrews	1AE&4AE	11,644	874,934	855	374,034	32
9	427	City of Crane Landfill	Crane	1AE&4AE	3,712	324,039	700	113,414	31
9	517A	City of Lamesa Landfill	Dawson	1	14,238	1,405,106	847	595,062	42
9	2158	Odessa Landfill	Ector	1	321,794	30,950,803	1,194	18,477,629	57
9	39	City of Seminole Landfill	Gaines	1AE&4AE	13,231	1,532,499	700	536,375	49
9	2154	Glasscock County Landfill	Glasscock	1AE	770	35,389	250	4,424	6
9	288A	City of Big Spring Landfill	Howard	1	40,257	278,242	1,190	165,554	4
9	2189	City of Stanton Landfill	Martin	1AE	6,494	515,487	1,000	257,743	40
9	1605B	City of Midland Landfill	Midland	1	244,158	32,286,490	989	15,965,669	65
9	976	City of Fort Stockton Landfill	Pecos	1AE&4AE	15,482	148,130	800	59,252	5
9	2120	City of Pecos Landfill	Reeves	1AE&4AE	19,855	679,406	850	288,747	23
9	673	Terrell County Landfill	Terrell	4AE	143	17,747	300	2,662	37
9	566	City of McCamey Landfill	Upton	4AE	1,291	1,213,875	750	455,203	5
9	691	Upton County Rankin Landfill	Upton	4AE	180	57,983	400	11,597	28
9	772	City of Monahans Landfill	Ward	1AE	12,938	914,832	850	388,803	30

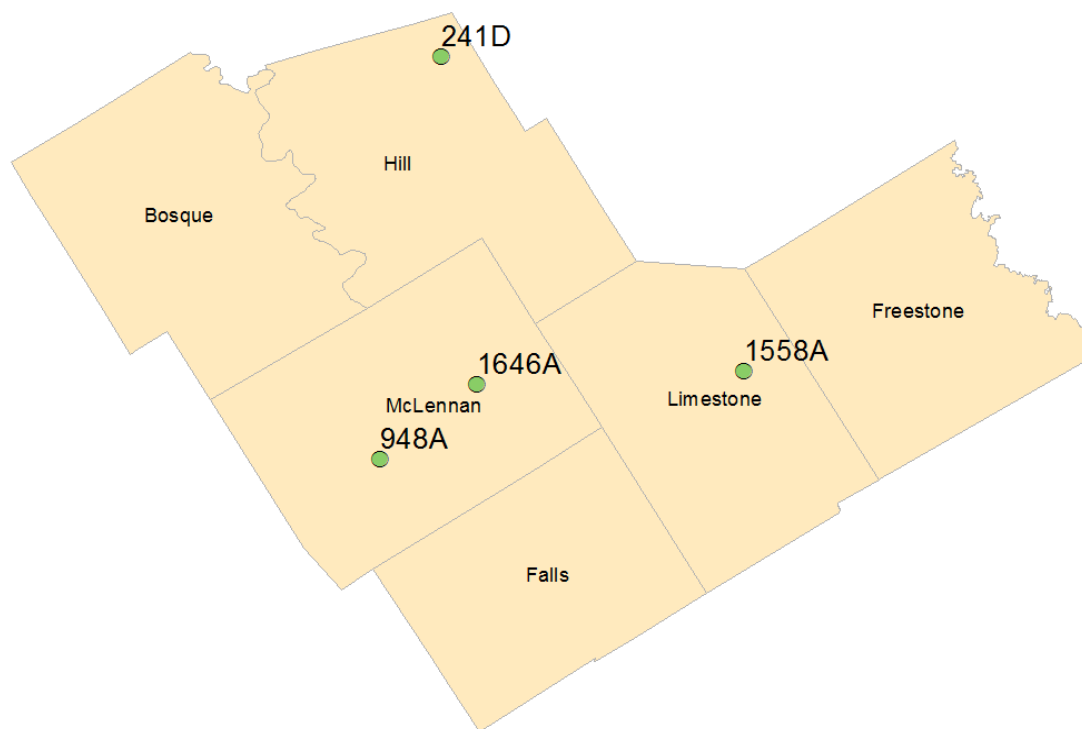
COG 10: Concho Valley Council of Governments—Landfill Locations



COG 10: Concho Valley Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
10	26B	City of Junction Landfill	Kimble	4AE	1,200	594,308	1,000	297,154	200
10	195	City of Mason Landfill	Mason	1AE	2,318	62,068	1,000	31,034	2
10	1732	City of Brady Landfill	McCulloch	1AE&4AE	10,395	2,130,690	900	958,811	39
10	1404	City of Menard Landfill	Menard	4AE	37	11,692	381	2,227	37
10	86B	City of Big Lake Landfill	Reagan	1AE	4,296	109	795	43	82
10	349	City of Eldorado Landfill	Schleicher	4AE	1,053	548,821	1,500	411,616	195
10	2264	City of Eldorado Landfill	Schleicher	1AE	3,579	1,321,355	1,500	991,016	76
10	79	San Angelo Landfill	Tom Green	1	182,781	3,524,460	1,311	2,310,284	13

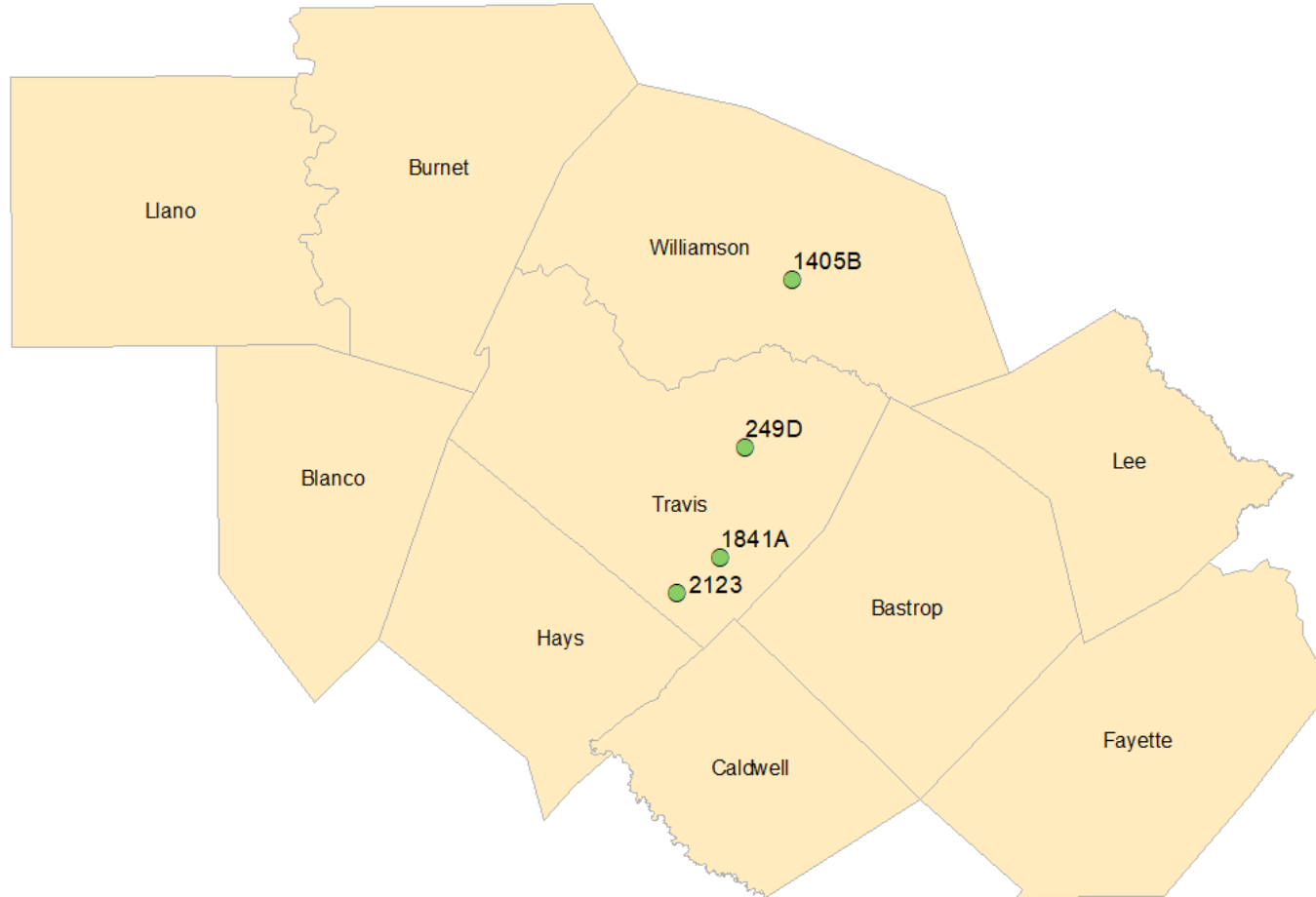
COG 11: Heart of Texas Council of Governments—Landfill Locations



COG 11: Heart of Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
11	241D	Itasca Landfill	Hill	1	275,703	47,636,242	1,378	32,821,371	101
11	1558A	BFI Mexia Landfill	Limestone	1	31,581	7,618,747	1,040	3,961,748	107
11	948A	City of Waco Landfill	McLennan	1	278,638	4,003,805	963	1,927,832	7
11	1646A	Lacy-Lakeview Recycling and Disposal Facility	McLennan	1	85,876	874,598	1,400	612,219	7

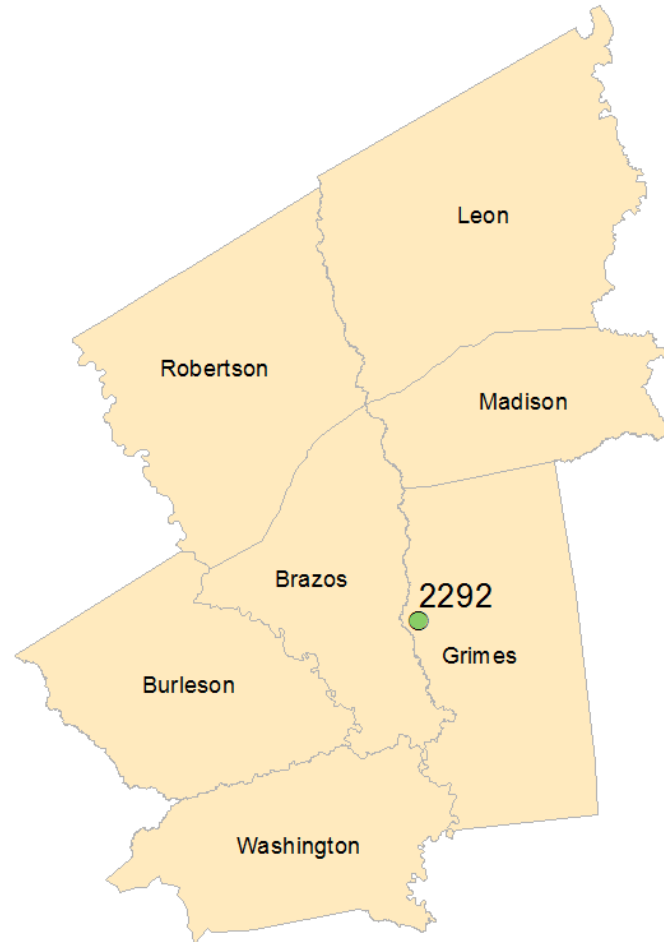
COG 12: Capital Area Council of Governments—Landfill Locations



COG 12: Capital Area Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
12	249D	Austin Community Recycling & Disposal Facility	Travis	1	999,836	10,297,663	1,500	7,723,247	11
12	1841A	IESI Travis County Landfill	Travis	4	190,435	2,042,605	1,200	1,225,563	6
12	2123	Texas Disposal Systems Landfill	Travis	1	848,106	20,365,129	1,360	13,848,288	16
12	1405B	Williamson County Recycling and Disposal Facility	Williamson	1	418,944	59,405,152	1,450	43,068,735	113

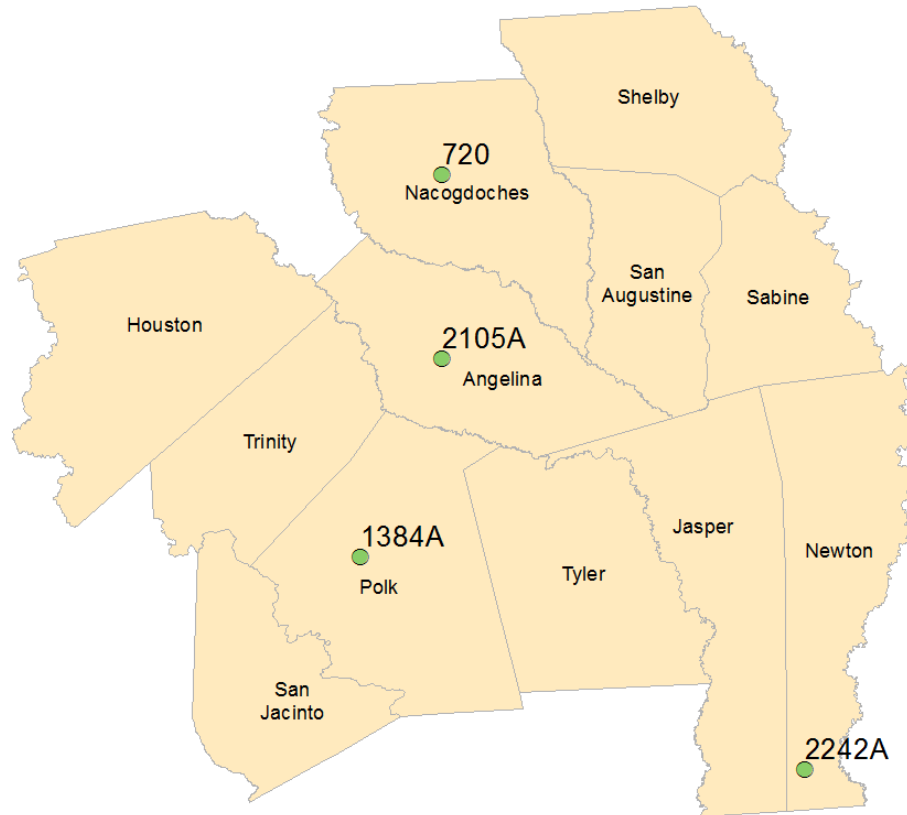
COG 13: Brazos Valley Council of Governments—Landfill Locations



COG 13: Brazos Valley Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
13	2292	Twin Oaks Landfill	Grimes	1	392,956	34,145,935	1,473	25,148,481	64

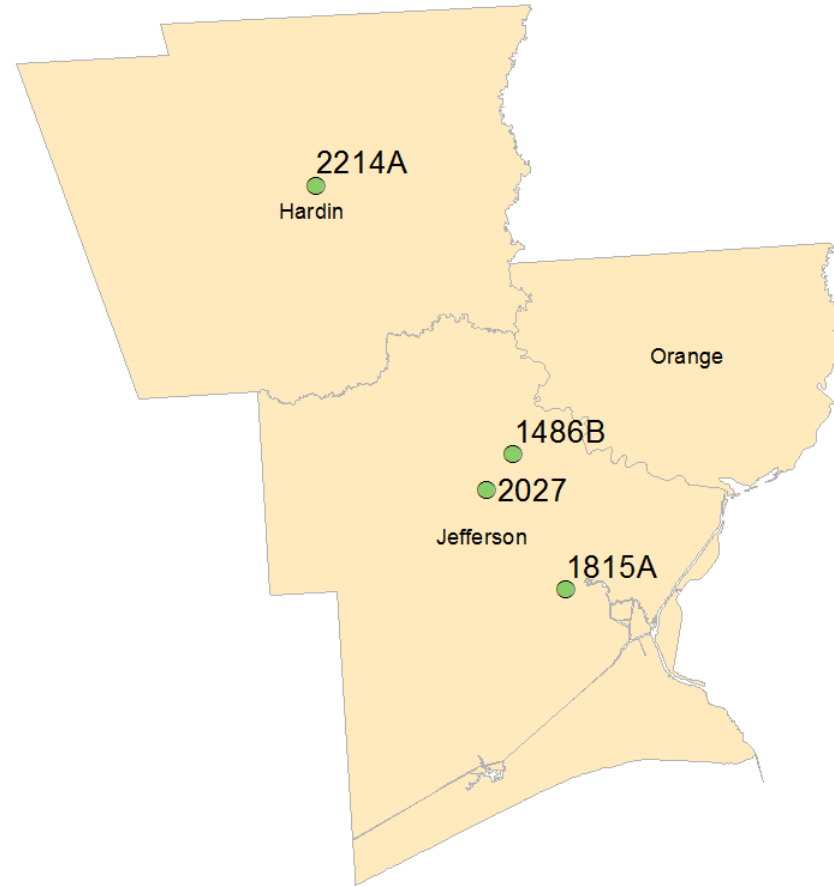
COG 14: Deep East Texas Council of Governments—Landfill Locations



COG 14: Deep East Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
14	2105A	Angelina County Waste Management Center	Angelina	1	99,510	3,387,530	1,200	2,032,518	20
14	720	City of Nacogdoches Landfill	Nacogdoches	1	72,840	2,834,064	1,238	1,754,286	33
14	2242A	Western Waste of Texas Newton Complex	Newton	1	232,710	41,871,118	1,260	26,378,804	143
14	1384A	Polk County Landfill	Polk	1	129,477	7,819,099	1,408	5,504,646	39

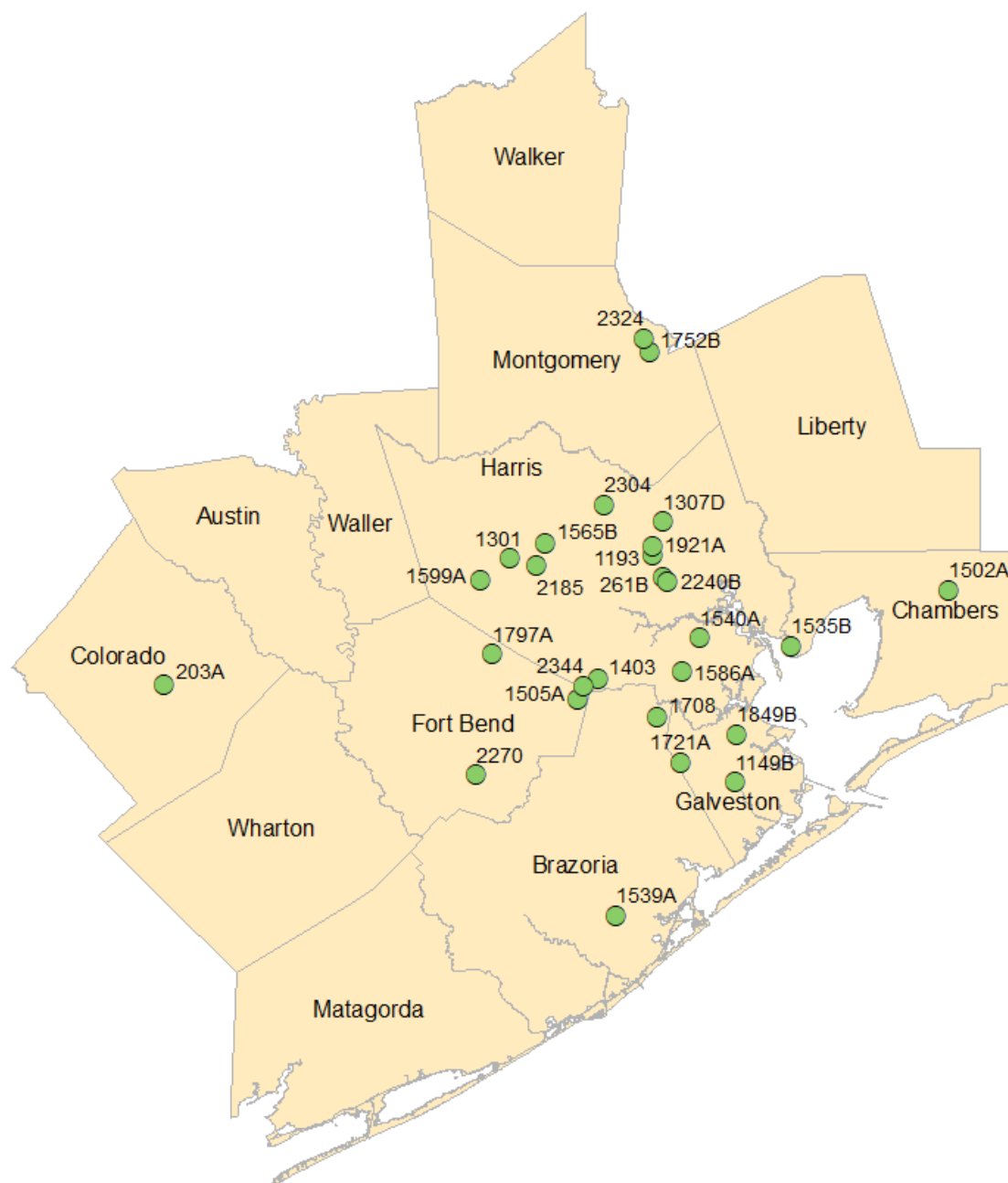
COG 15: South East Texas Regional Planning Commission—Landfill Locations



COG 15: South East Texas Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
15	2214A	IESI Hardin County Landfill	Hardin	1	53,710	790,902	1,700	672,267	11
15	1486B	City of Beaumont Landfill	Jefferson	1	256,143	17,821,748	1,384	12,332,650	48
15	1815A	City of Port Arthur Landfill	Jefferson	1	129,225	15,202,649	1,489	11,318,372	88
15	2027	BFI Golden Triangle Landfill	Jefferson	1	255,622	7,362,522	1,600	5,890,018	25

COG 16: Houston-Galveston Area Council—Landfill Locations



COG 16: Houston-Galveston Area Council—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
16	1539A	Seabreeze Environmental Landfill	Brazoria	1	686,618	21,334,654	1,750	18,667,822	28
16	1708	Dixie Farm Road Landfill	Brazoria	4	48,519	1,858,100	880	817,564	17
16	1502A	Chambers County Landfill	Chambers	1	26,091	17,469,329	1,200	10,481,597	402
16	1535B	Baytown Landfill	Chambers	1	315,000	8,958,079	1,580	7,076,882	23
16	203A	Altair Disposal Services Landfill	Colorado	1	48,629	368,471	1,200	221,083	5
16	1505A	Blue Ridge Landfill	Fort Bend	1	1,244,016	142,373,978	1,226	87,275,249	88
16	1797A	Sprint Fort Bend County Landfill	Fort Bend	4	307,236	13,904,680	1,044	7,258,243	24
16	2270	Fort Bend Regional Landfill	Fort Bend	1	1,080,773	35,973,138	1,750	31,476,496	29
16	1149B	Galveston County Landfill	Galveston	1	393,882	37,084,042	1,500	27,813,032	53
16	1721A	Coastal Plains Recycling and Disposal Facility	Galveston	1	521,025	12,062,148	1,900	11,459,041	22
16	1849B	North County Landfill	Galveston	4	20	3,689,381	1,314	2,423,923	50
16	261B	McCarty Road Landfill	Harris	1	1,364,814	21,472,319	2,212	23,748,385	16
16	1193	Whispering Pines Landfill	Harris	1	24	10,902,299	2,000	10,902,299	10
16	1301	Addicks Fairbanks Landfill	Harris	4	56,929	75,608	1,260	47,633	1
16	1307D	Atascocita Recycling and Disposal Facility	Harris	1	1,209,440	38,458,529	1,520	29,228,482	24
16	1403	Casco Hauling and Excavation Landfill	Harris	4	97,147	1,220,007	900	549,003	6
16	1540A	Greenshadows Landfill	Harris	4	101,900	2,549,795	1,680	2,141,828	19
16	1565B	Fairbanks Landfill	Harris	4	176,600	17,606,869	1,480	13,029,083	37
16	1586A	WCT Greenbelt Landfill	Harris	4	155,381	2,954,017	1,500	2,215,513	12
16	1599A	Greenhouse Road Landfill	Harris	4	124,622	5,484,837	1,500	4,113,628	21
16	1921A	Cougar Landfill	Harris	4	16	63,027	1,400	44,119	4
16	2185	Hawthorn Park Landfill	Harris	4	16	43,880	1,540	33,788	4
16	2240B	Ralston Road Landfill	Harris	4	127,157	1,456,546	1,500	1,092,410	4
16	2304	Tall Pines Landfill	Harris	4	344,369	1,758,447	1,500	1,318,835	3
16	2344	Lone Star Recycling and Disposal Facility	Harris	4	303,486	10,958,517	1,000	5,479,259	16
16	1752B	Security Recycling and Disposal Facility	Montgomery	1	364,400	12,635,661	1,480	9,350,389	24
16	2324	Sprint Montgomery Landfill	Montgomery	4	8,857	40,585,362	1,000	20,292,681	50

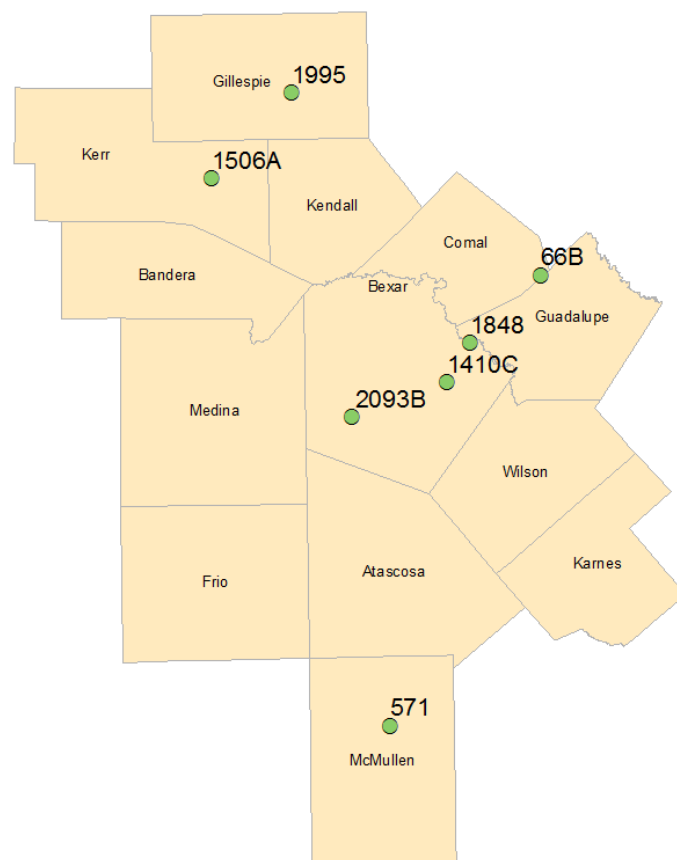
COG 17: Golden Crescent Regional Planning Commission—Landfill Locations



COG 17: Golden Crescent Regional Planning Commission—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
17	1522A	City of Victoria Landfill	Victoria	1	152,074	7,122,229	1,678	5,975,550	28

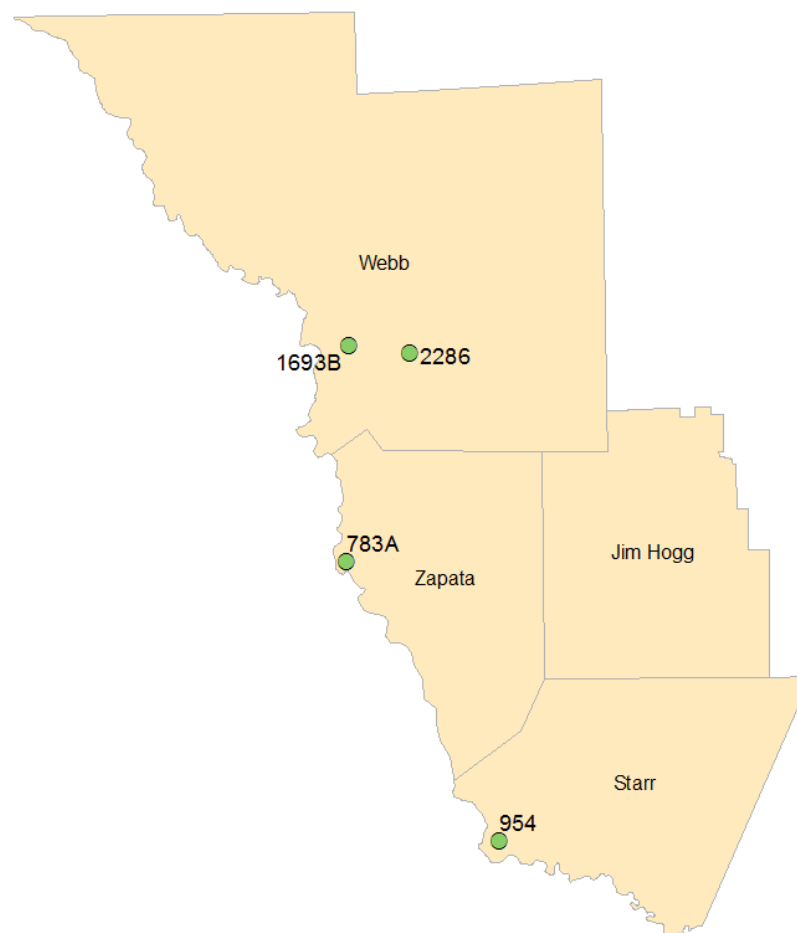
COG 18: Alamo Area Council of Governments—Landfill Locations



COG 18: Alamo Area Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
18	1410C	BFI Waste Tessman Road Landfill	Bexar	1	939,912	70,456,792	1,639	57,739,341	45
18	2093B	Covel Gardens Landfill	Bexar	1	1,063,232	103,403,670	1,750	90,478,211	77
18	66B	Mesquite Creek Landfill	Comal and Guadalupe	1	452,245	10,929,112	1,750	9,562,973	17
18	1995	City of Fredericksburg Landfill	Gillespie	1	34,614	1,560,737	1,180	920,835	22
18	1848	Beck Landfill	Guadalupe	4	395,123	4,301,661	1,300	2,796,080	14
18	1506A	City of Kerrville Landfill	Kerr	1	9,078	675,827	1,009	340,955	13
18	571	McMullen County	McMullen	1AE	500	7,336	750	2,751	6

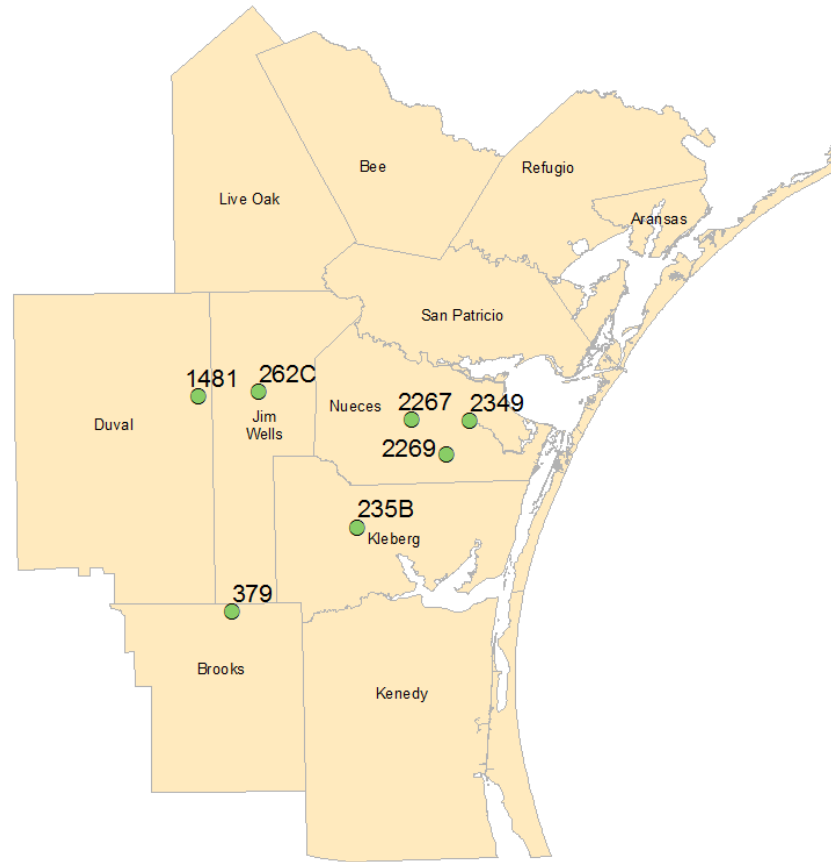
COG 19: South Texas Development Council—Landfill Locations



COG 19: South Texas Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
19	954	City of Roma Landfill	Starr	1AE	3,600	17,774	850	7,554	1
19	1693B	City of Laredo Landfill	Webb	1	377,655	6,981,036	1,296	4,523,711	12
19	2286	Ponderosa Regional Landfill	Webb	1	41,048	87,938,053	1,060	46,607,168	99
19	783A	San Ygnacio Landfill	Zapata	1AE&4AE	2,161	273,849	1,000	136,925	33

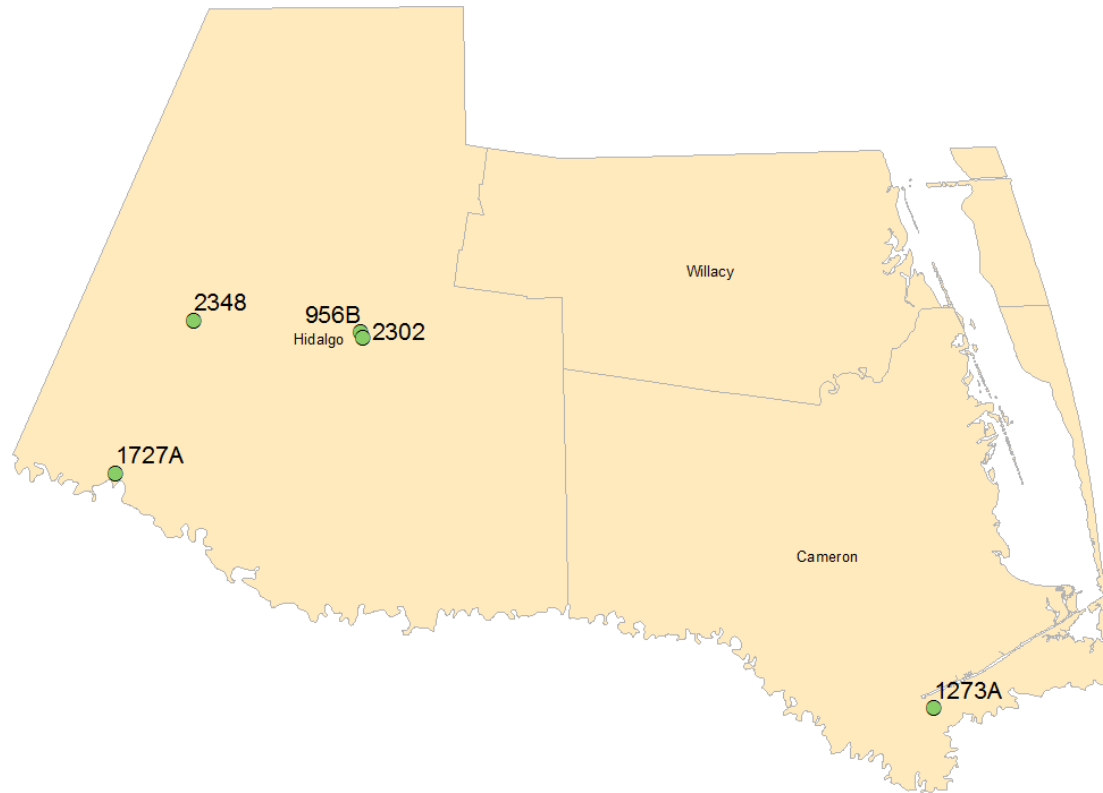
COG 20: Coastal Bend Council of Governments—Landfill Locations



COG 20: Coastal Bend Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
20	379	Brooks County Landfill	Brooks	4AE	336	291,917	400	58,383	27
20	1481	Duval County Landfill	Duval	4AE	3,960	10,218	800	4,087	6
20	262C	City of Alice Landfill	Jim Wells	1	25,881	689,843	1,200	413,906	16
20	235B	City of Kingsville Landfill	Kleberg	1	31,444	3,043,714	827	1,258,576	43
20	2267	El Centro Landfill	Nueces	1	153,451	14,449,609	1,924	13,900,524	70
20	2269	Cefe Valenzuela Landfill	Nueces	1	476,850	123,169,630	1,074	66,142,091	139
20	2349	Gulley Hurst Landfill	Nueces	4	63,094	10,988,381	750	4,120,643	57

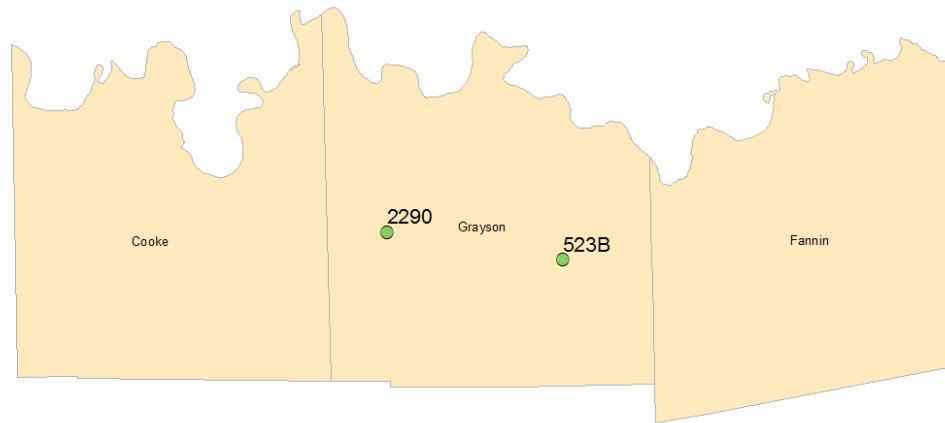
COG 21: Lower Rio Grande Valley Development Council—Landfill Locations



COG 21: Lower Rio Grande Valley Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
21	1273A	City of Brownsville Municipal Landfill	Cameron	1	317,655	27,641,110	1,508	20,841,397	49
21	956B	City of Edinburg Landfill	Hidalgo	1	494,515	5,179,505	1,293	3,348,550	6
21	1727A	Penitas Landfill	Hidalgo	1AE	8,179	20,500	1,000	10,250	1
21	2302	City of Edinburg Landfill	Hidalgo	4	123,136	10,309,433	1,094	5,639,260	32
21	2348	La Gloria Ranch Landfill	Hidalgo	1	291,619	109,129,915	1,480	80,756,137	214

COG 22: Texoma Council of Governments—Landfill Locations



COG 22: Texoma Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
22	523B	Hillside Landfill	Grayson	1	62,617	11,229,803	920	5,165,709	72
22	2290	TEXOMA Area Solid Waste Authority Disposal and Recycling Facility	Grayson	1	151,683	22,494,065	900	10,122,329	75

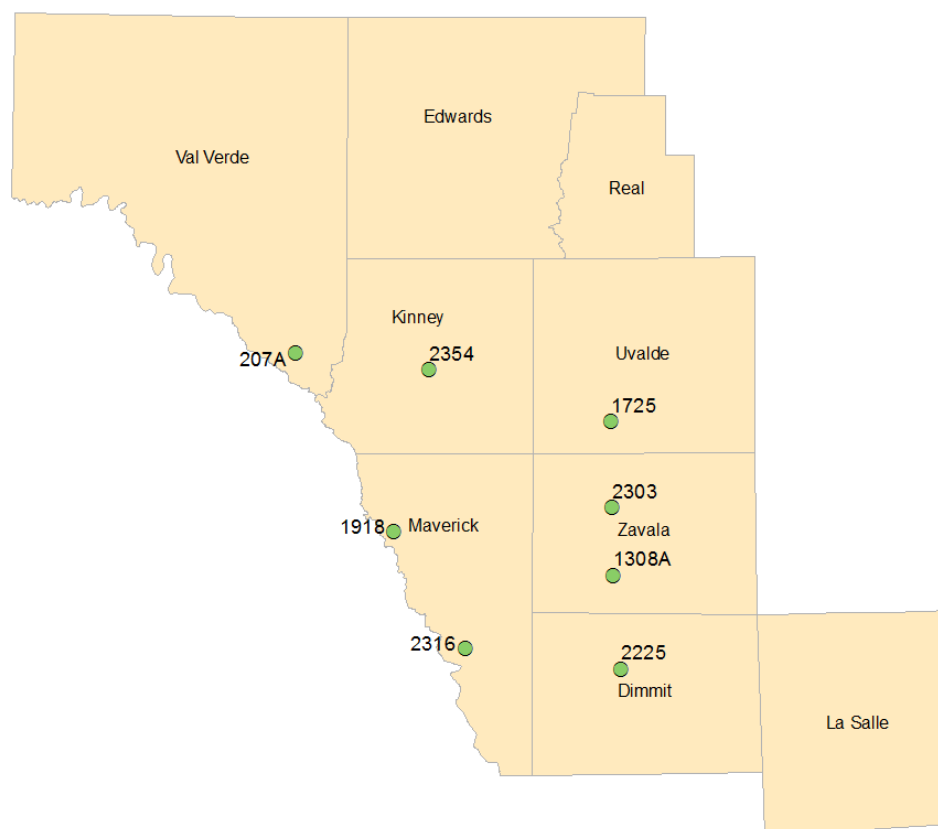
COG 23: Central Texas Council of Governments—Landfill Locations



COG 23: Central Texas Council of Governments—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
23	692A	Temple Recycling and Disposal Facility	Bell	1	433,986	6,608,681	1,400	4,626,077	10
23	1866	Fort Hood Landfill	Coryell	1	19,501	2,654,556	1,100	1,460,006	29

COG 24: Middle Rio Grande Valley Development Council—Landfill Locations



COG 24: Middle Rio Grande Valley Development Council—List of Landfills

COG	Permit	Site Name	County	Type	2017 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
24	2225	City of Carrizo Springs Landfill	Dimmit	1AE	7,067	1,554,316	600	466,295	58
24	2354	Fort Clark Springs Association Landfill	Kinney	1AE	394	462,689	800	185,076	147
24	1918	City of Eagle Pass and Maverick Landfill	Maverick	4AE	4,460	1,119,282	750	419,731	18
24	2316	Maverick County El Indio Landfill	Maverick	1	46,335	14,625,394	811	5,930,597	120
24	1725	City of Uvalde Landfill	Uvalde	1	21,605	198,527	1,000	99,264	8
24	207A	City of Del Rio Landfill	Val Verde	1	51,764	1,097,655	700	384,179	7
24	1308A	City of Crystal City Landfill	Zavala	1AE	3,903	1,410,215	850	599,341	30
24	2303	Zavala County Landfill	Zavala	1AE	3,552	120,329	550	33,090	20

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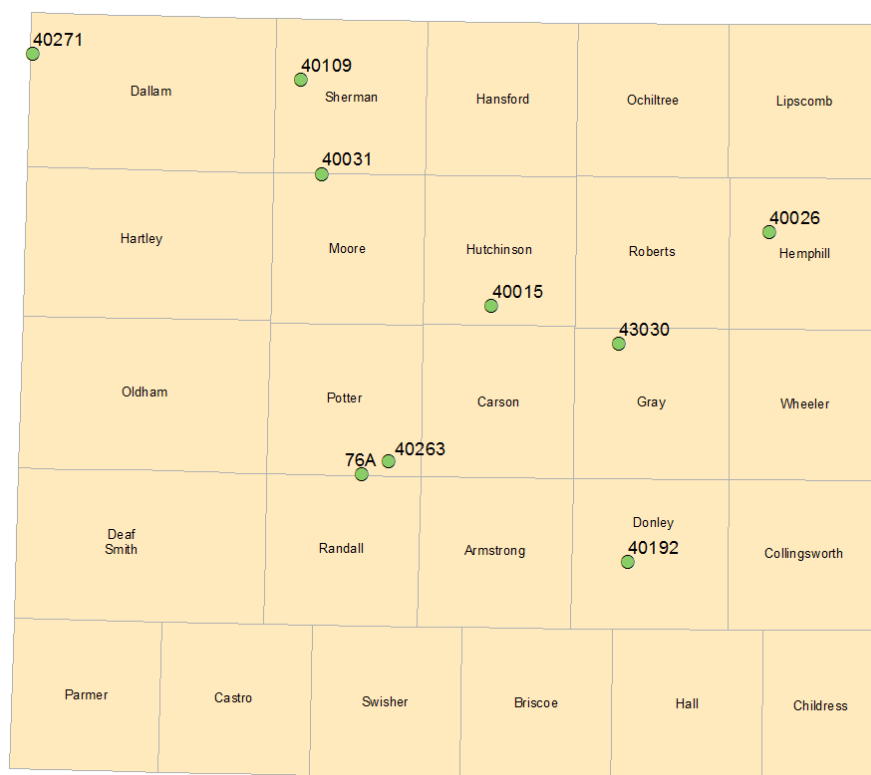
Facility Data for MSW Processing Facilities

The maps and tables included in this section represent the active MSW processing facilities in 2017. The reported tons are in terms of the type of processing activity conducted at a facility (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated). The maps and tables are organized by COG region and county. All values are rounded to the nearest whole number.

Key to Processing Facility Types

Type	Description
5AC	Medical waste autoclave facility
5GG	Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility
5MW	Medical waste processor
5MWTS	Medical waste transfer station
5RC	Compost facility
5RR	Recycling & recovery facility
5TL	Liquid waste transfer station
5TS	Transfer station
5WI	Incinerator (no electrical power generation)

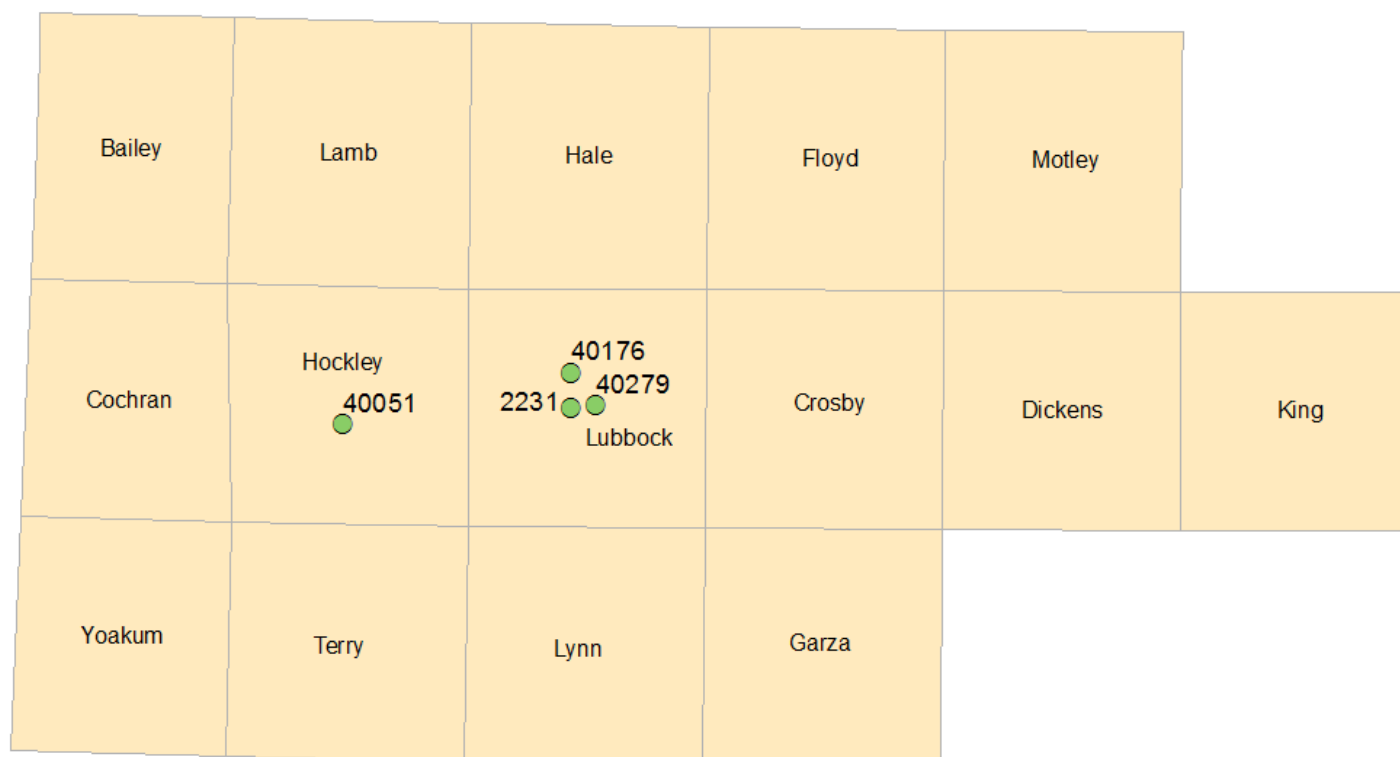
COG 1: Panhandle Regional Planning Commission—Processing Facility Locations



COG 1: Panhandle Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
1	40271	Tri-State Recycling	Dallam	5TS	11,668
1	40192	City of Clarendon Transfer Station	Donley	5TS	2,307
1	43030	City of Pampa Liquid Waste Processing Facility	Gray	5GG	637
1	40026	City of Canadian Transfer Station	Hemphill	5TS	4,352
1	40015	City of Borger Transfer Station	Hutchinson	5TS	17,430
1	40031	City of Cactus Transfer Station	Moore	5TS	2,161
1	76A	City of Amarillo Transfer Station	Potter	5TS	154,964
1	40263	Biocycle Medical Waste Processing Facility	Potter	5AC	1,549
1	40109	City of Stratford Transfer Station	Sherman	5TS	2,708

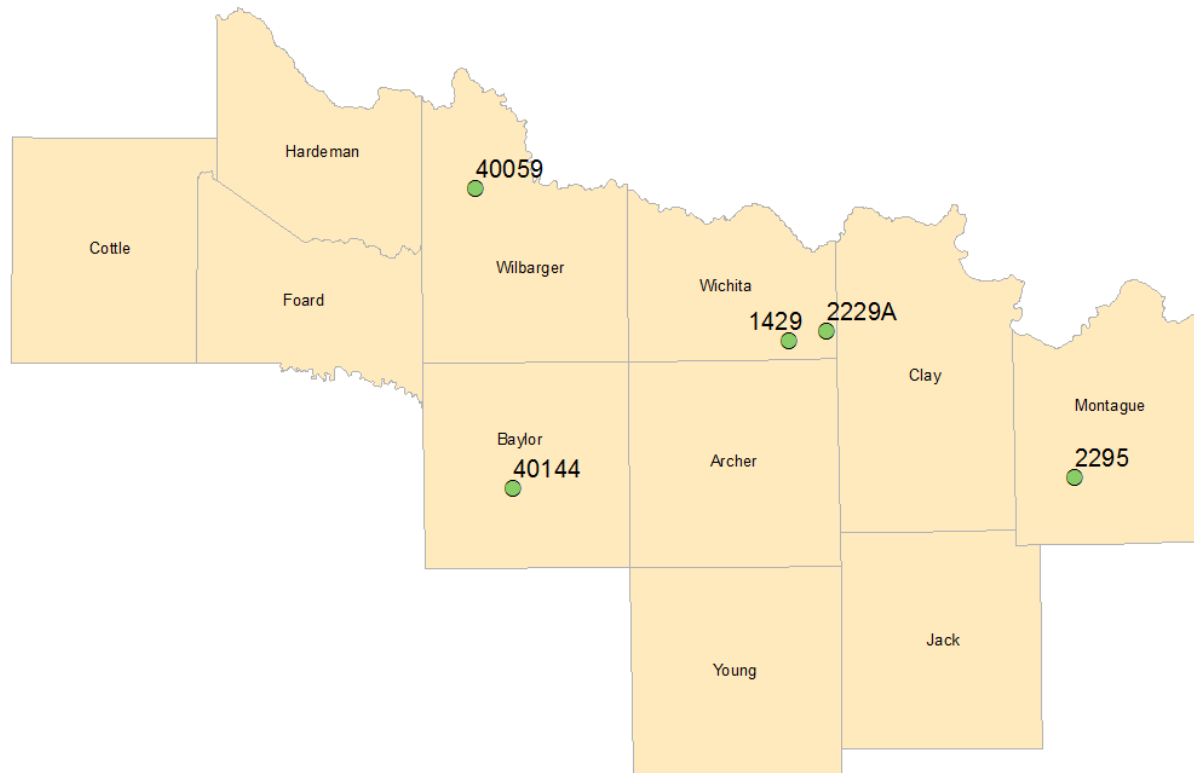
COG 2: South Plains Association of Governments—Processing Facility Locations



COG 2: South Plains Association of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
2	40051	City of Levelland Transfer Station	Hockley	5TS	46
2	2231	Southwaste Disposal South Plains Facility	Lubbock	5GG	9,599
2	40176	Caliche Canyon Transfer Station	Lubbock	5TS	424
2	40279	Stericycle Lubbock Facility	Lubbock	5MWTS	1,512

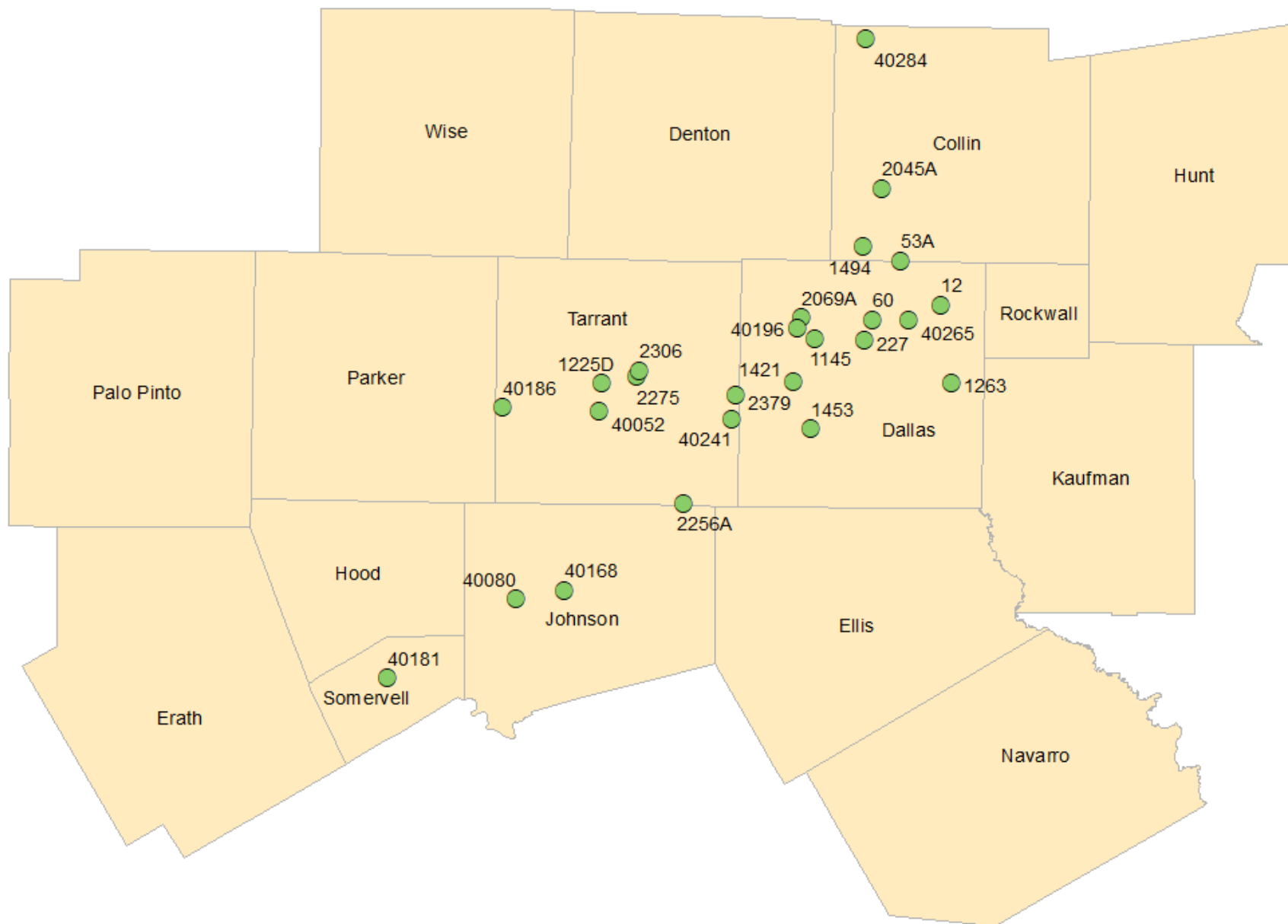
COG 3: Nortex Regional Planning Commission—Processing Facility Locations



COG 3: Nortex Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
3	40144	City of Seymour Transfer Station	Baylor	5TS	760
3	2295	IESI Bowie Transfer Station	Montague	5TS	52,603
3	1429	City of Wichita Falls Transfer Station	Wichita	5TS	63,281
3	2229A	IMC Liquid Waste Processing Facility	Wichita	5GG	20,627
3	40059	City of Vernon Transfer Station	Wilbarger	5TS	17,745

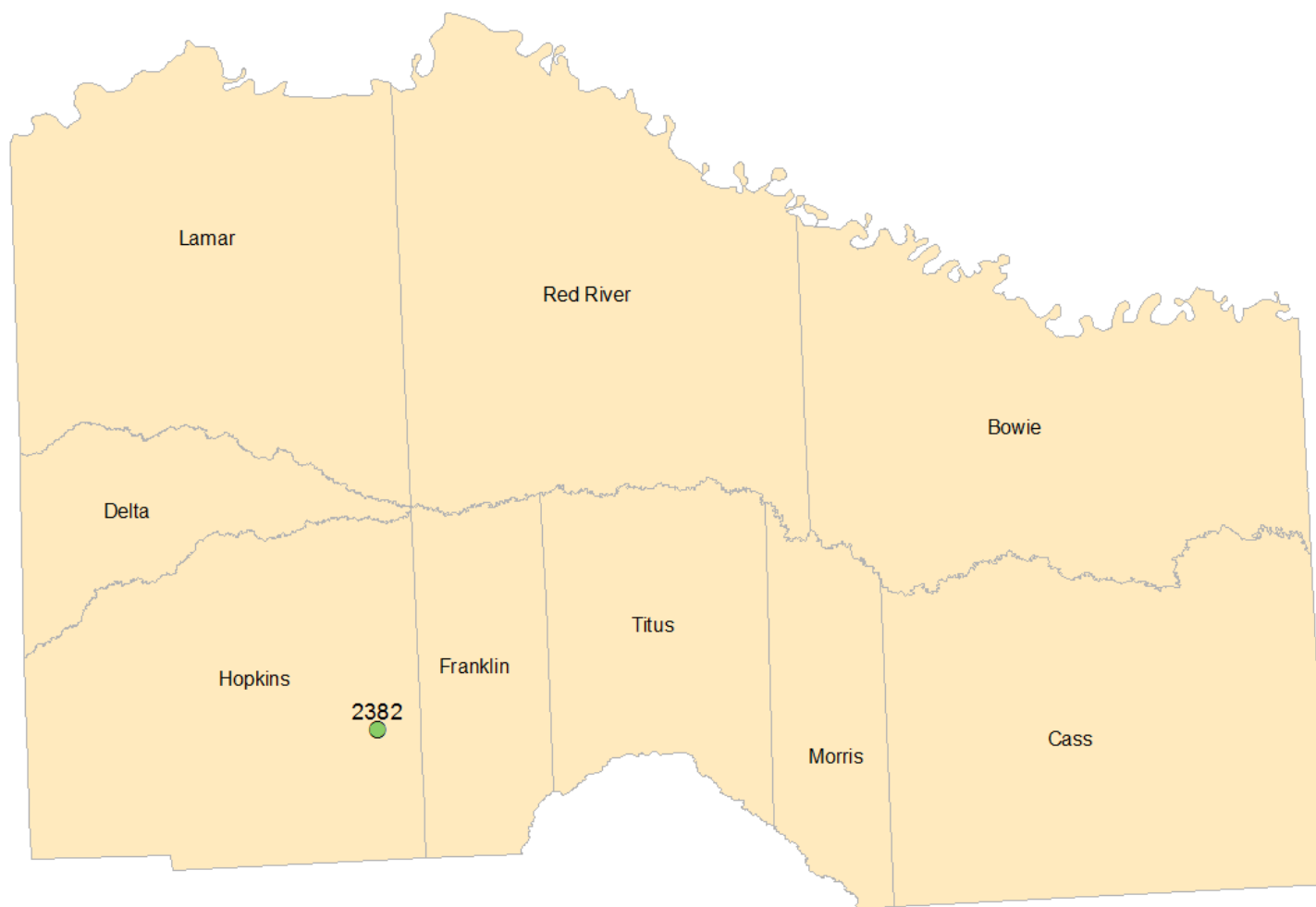
COG 4: North Central Texas Council of Governments—Processing Facility Locations



COG 4: North Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
4	53A	Lookout Drive Transfer Station	Collin	5TS	158,054
4	1494	Parkway Transfer Station	Collin	5TS	128,049
4	2045A	Custer Road Transfer Station	Collin	5TS	303,503
4	40284	Town and Country Recycling Facility	Collin	5TS	45,251
4	12	City of Garland Transfer Station	Dallas	5TS	118,534
4	60	City of Dallas Transfer Station - Fair Oaks Ave	Dallas	5TS	69,909
4	227	City of University Park Transfer Station	Dallas	5TS	12,751
4	1145	City of Dallas Transfer Station - Harry Hines Blvd	Dallas	5TS	152,782
4	1263	City of Mesquite Transfer Station	Dallas	5TS	55,107
4	1421	PSC Recovery Systems Liquid Waste Processing Facility	Dallas	5GG	63,031
4	1453	City of Dallas Transfer Station - Westmoreland Rd	Dallas	5TS	62,911
4	2069A	Liquid Environmental Solutions of Texas Dallas Facility	Dallas	5GG	137,273
4	40196	Community Waste Disposal Transfer Station	Dallas	5TS	64,823
4	40265	Stericycle Garland Facility	Dallas	5AC	24,828
4	40080	Harrington Environmental Liquid Transfer Station	Johnson	5TL	6,400
4	40168	Cleburne Transfer Station	Johnson	5TS	65,963
4	40181	Somervell County Transfer Station	Somervell	5TS	1,779
4	1225D	Cold Springs Liquid Waste Processing Facility	Tarrant	5GG	63,048
4	2256A	Southwaste Disposal Dallas Facility	Tarrant	5GG	97,781
4	2275	North Texas Recycling Complex (facility reported all incoming materials as diverted and no waste transferred for disposal)	Tarrant	5TS	0
4	2306	IESI Minnis Drive Transfer Station	Tarrant	5TS	142,795
4	2379	Liquitek Arlington Liquid Waste Processing Facility	Tarrant	5GG	47,413
4	40052	Southwest Paper Stock Transfer Station	Tarrant	5TS	12,920
4	40186	Westside Transfer Station	Tarrant	5TS	183,814
4	40241	Oncore Technology Facility	Tarrant	5MW	1,376

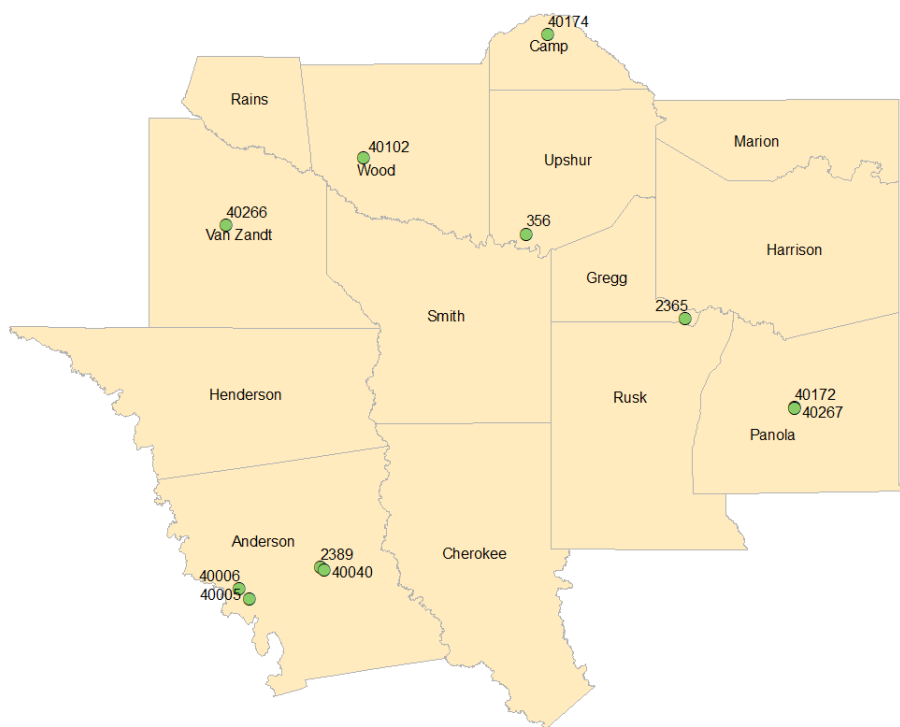
COG 5: Ark-Tex Council of Governments—Processing Facility Locations



COG 5: Ark-Tex Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
5	2382	Stouts Creek Compost Facility	Hopkins	5RC	8,731

COG 6: East Texas Council of Governments—Processing Facility Locations



COG 6: East Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
6	2389	IESI Palestine Transfer Station	Anderson	5TS	10,672
6	40005	TDCJ Beto Transfer Station	Anderson	5TS	851
6	40006	TDCJ Coffield Transfer Station	Anderson	5TS	1,130
6	40040	IESI Palestine Transfer Station	Anderson	5TS	41,322
6	40174	Pittsburgh Transfer Station	Camp	5TS	30,294
6	2365	Edwards Construction Facility	Gregg	5GG	5,790
6	40172	City of Carthage Transfer Station	Panola	5TS	11,914
6	40267	Sharps Environmental Services Facility	Panola	5MW	1,081
6	356	Vital Earth Resources Compost Facility	Upshur	5RC	2,196
6	40266	City of Canton Transfer Station	Van Zandt	5TS	23,248
6	40102	Upper Sabine Valley SWMD Transfer Station	Wood	5TS	11,624

COG 7: West Central Texas Council of Governments—Processing Facility Locations



COG 7: West Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
7	No Processing Facilities in COG Region 7 in 2017				

COG 8: Rio Grande Council of Governments—Processing Facility Locations



COG 8: Rio Grande Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
8	728	City of El Paso Delta Transfer Station	El Paso	5TS	1,605
8	2355	Liquid Environmental Solutions of Texas El Paso Facility	El Paso	5GG	17,772
8	40237	El Paso C&D Recycling Plant	El Paso	5RR	2,936
8	40261	Stericycle El Paso Facility	El Paso	5MWTS	1,522
8	40262	Mediwest Medical Waste Treatment Facility	El Paso	5AC	180

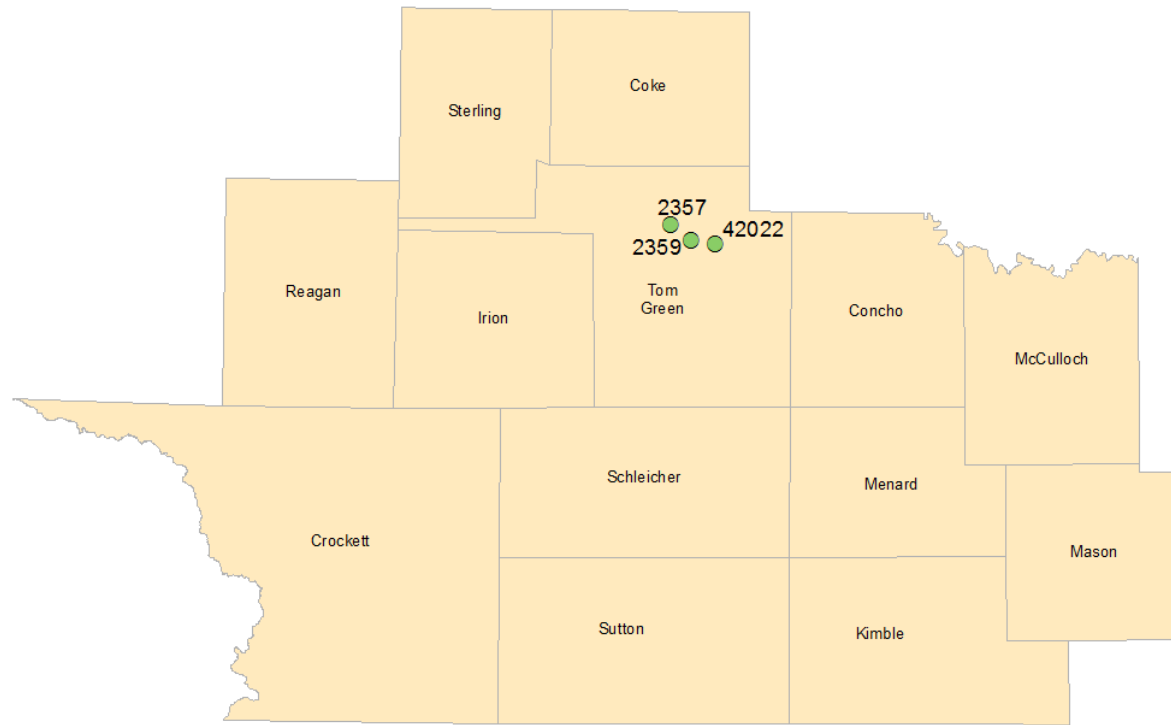
COG 9: Permian Basin Regional Planning Commission—Processing Facility Locations



COG 9: Permian Basin Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
9	2373	Affordable Dewatering Service	Midland	5GG	167,484
9	43028	City of Stockton Liquid Waste Processing Facility	Pecos	5GG	2,336

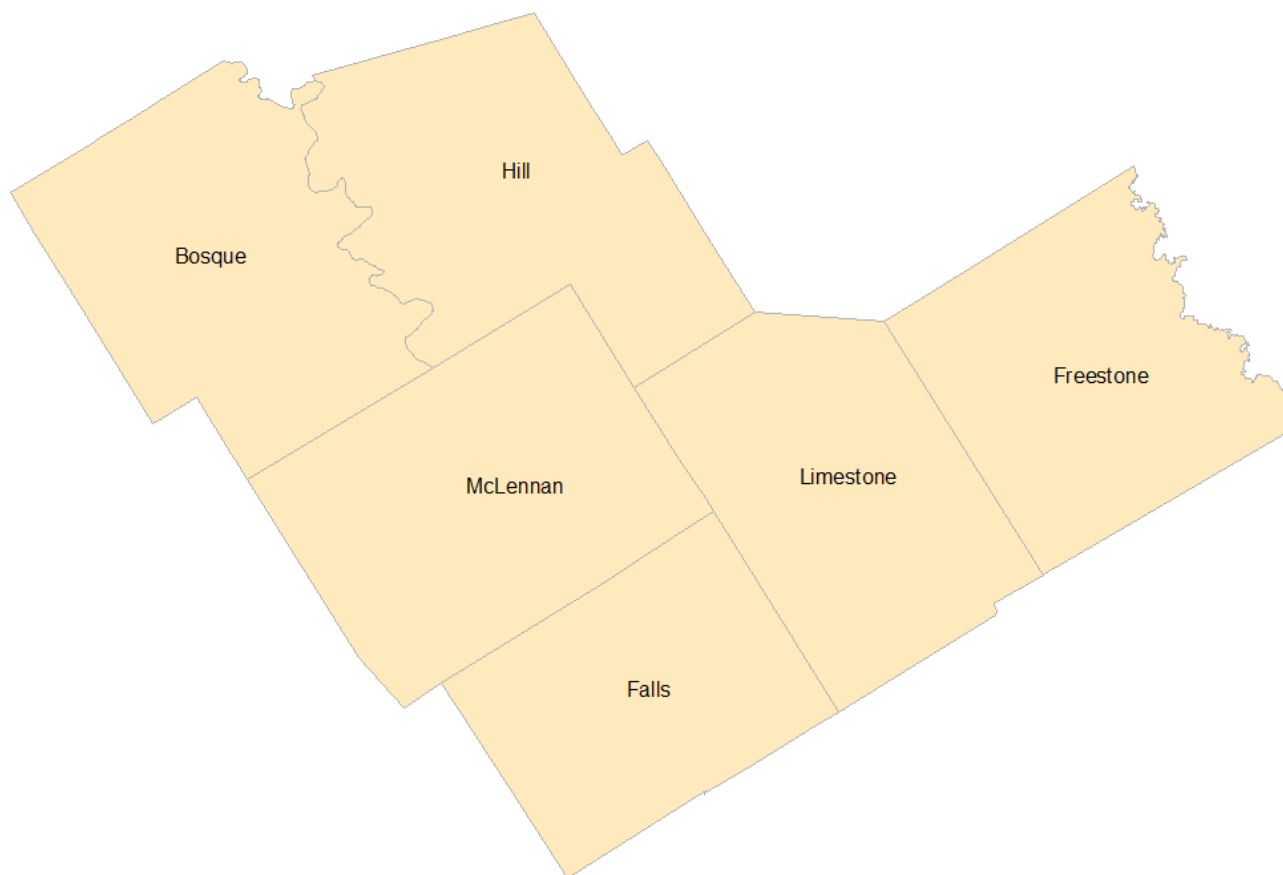
COG 10: Concho Valley Council of Governments—Processing Facility Locations



COG 10: Concho Valley Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
10	2357	San Angelo Pro Pump Dewatering & Compost Facility	Tom Green	5RC	348
10	2359	D's Recycling Facility	Tom Green	5RC	713
10	42022	Kickapoo Composting Facility	Tom Green	5RC	1,689

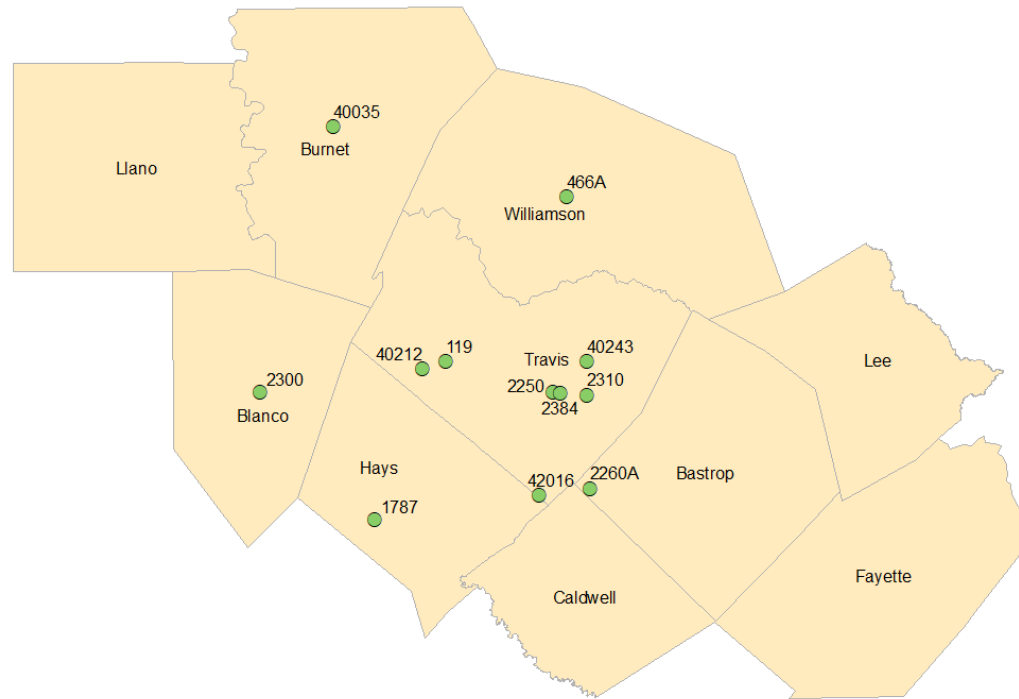
COG 11: Heart of Texas Council of Governments—Processing Facility Locations



COG 11: Heart of Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
11	No Processing Facilities in COG Region 11 in 2017				

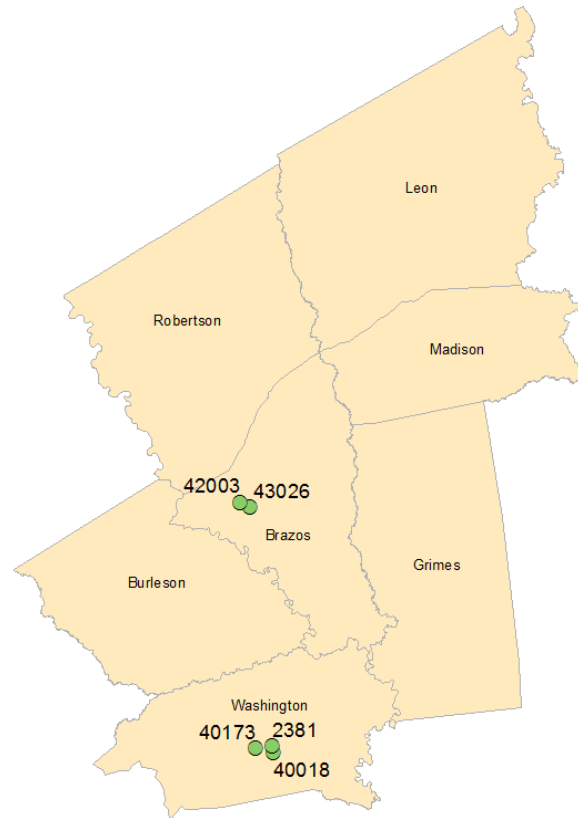
COG 12: Capital Area Council of Governments—Processing Facility Locations



COG 12: Capital Area Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
12	2260A	Stericycle Austin Autoclave	Bastrop	5AC	8,220
12	2300	IESI Blanco County Transfer Station	Blanco	5TS	18,793
12	40035	BFI Burnet Transfer Station	Burnet	5TS	30,319
12	1787	Hays County Transfer Station	Hays	5TS	1,788
12	119	Texas Disposal System Eco Depot	Travis	5TS	7,482
12	2250	Liquid Environmental Solutions of Texas Austin Facility	Travis	5GG	64,887
12	2310	J-V Dirt + Loam Composting Facility	Travis	5RC	183,784
12	2384	Austin Wastewater Processing Facility	Travis	5GG	87,063
12	40212	Tom Dye Liquid Waste Transfer Station	Travis	5TL	294
12	40243	River City Recycles	Travis	5RR	16,310
12	42016	Texas Organic Recovery Facility	Travis	5RC	8,660
12	466A	Georgetown Transfer Station	Williamson	5TS	74,049

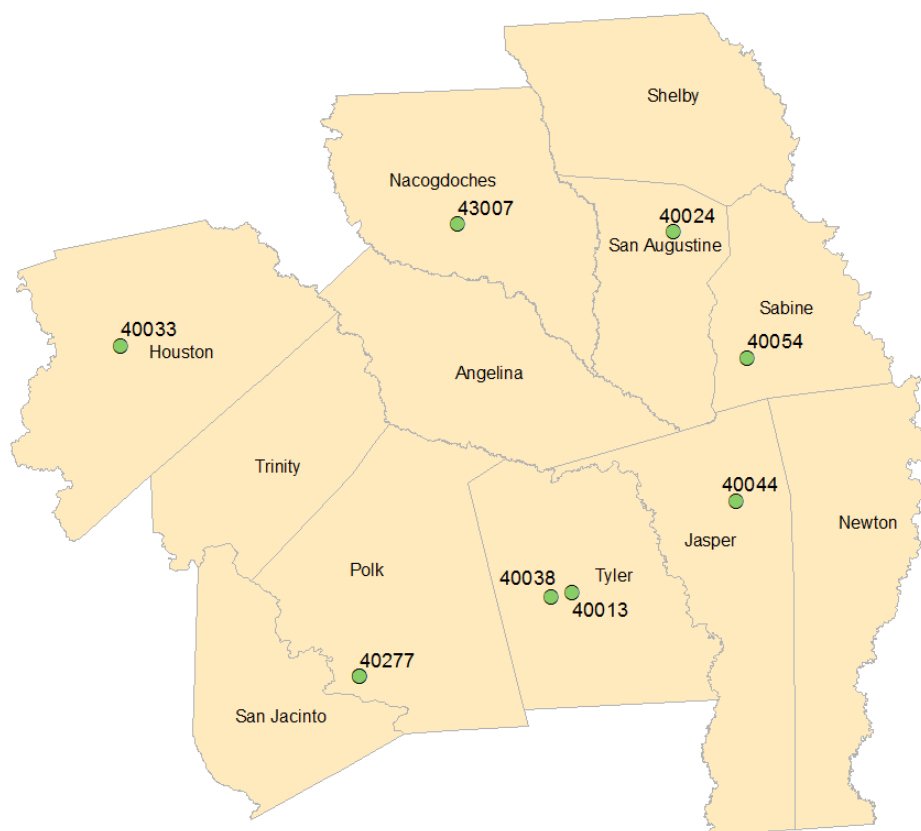
COG 13: Brazos Valley Council of Governments—Processing Facility Locations



COG 13: Brazos Valley Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
13	42003	Bryan Composting Facility	Brazos	5RC	10,842
13	43026	Still Creek Liquid Waste Processing Facility	Brazos	5GG	7,405
13	2381	L&G Environmental Liquid Waste Processing Facility	Washington	5GG	5,292
13	40018	City of Brenham Transfer Station	Washington	5TS	30,550
13	40173	Washington County Transfer Station	Washington	5TS	34,688

COG 14: Deep East Texas Council of Governments—Processing Facility Locations



COG 14: Deep East Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
14	40033	Hutto Garbage Service Transfer Station	Houston	5TS	645
14	40044	City of Jasper Transfer Station	Jasper	5TS	20,000
14	43007	City of Nacogdoches Grease Treatment Facility	Nacogdoches	5GG	2,246
14	40277	Pro Star Waste Transfer Station	Polk	5TS	1,451
14	40054	Don General Services Transfer Station	Sabine	5TS	3,459
14	40024	City of San Augustine Transfer Station	San Augustine	5TS	2,368
14	40013	City of Woodville Transfer Station	Tyler	5TS	3,302
14	40038	Tyler County Transfer Station	Tyler	5TS	1,689

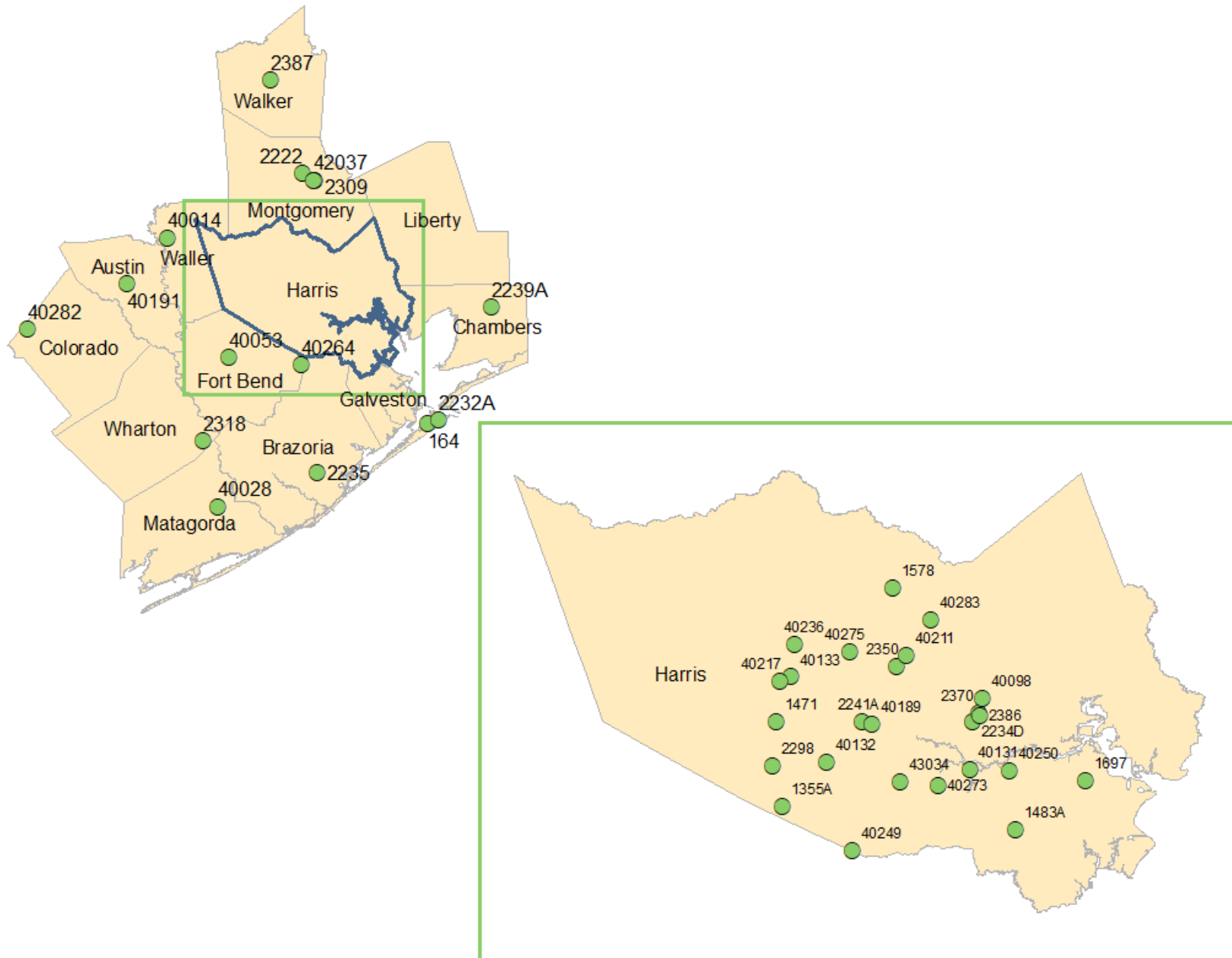
COG 15: South East Texas Regional Planning Commission—Processing Facility Locations



COG 15: South East Texas Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
15	40164	JTB Recycling Liquid Waste Transfer Station	Jefferson	5TL	250
15	40225	Triangle Waste Solutions Transfer Station	Jefferson	5TS	19,465
15	40268	Biomedical Waste Solutions Medical Waste Processing Facility	Jefferson	5AC	1,997
15	43000	JTB Recycling Liquid Waste Processing Facility	Jefferson	5GG	5,273

COG 16: Houston-Galveston Area Council—Processing Facility Locations

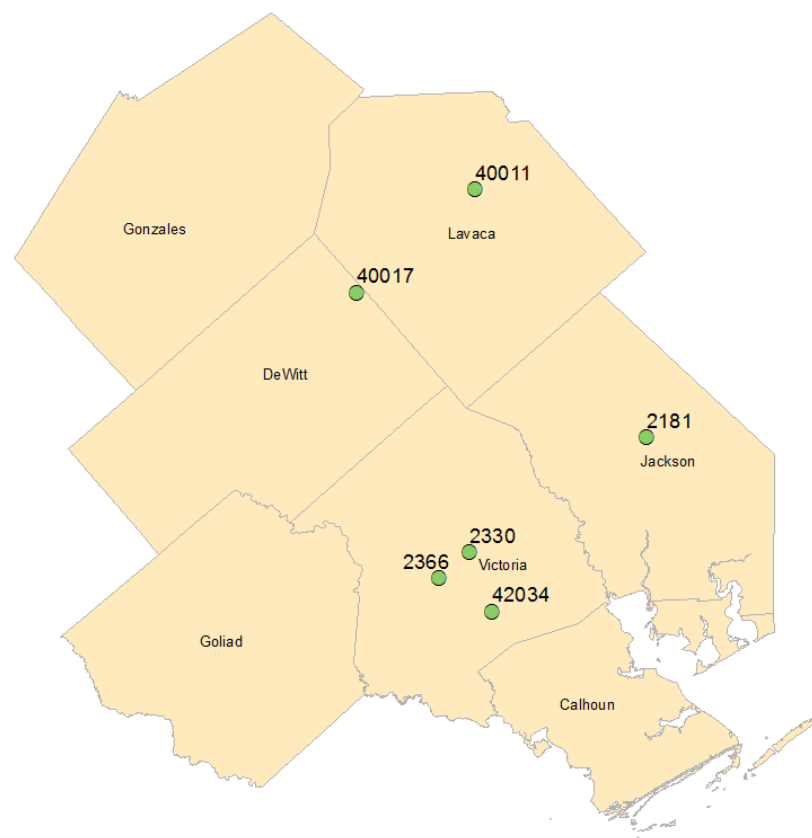


COG 16: Houston-Galveston Area Council List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
16	40191	Country Waste Transfer Station	Austin	5TS	6,451
16	2235	Brazoria County Recycling Center (facility reported all incoming materials as diverted and no waste transferred for disposal)	Brazoria	5RR	0
16	2239A	Gulfwest Waste Solutions Facility	Chambers	5WI	48
16	40282	City of Weimar Transfer Station	Colorado	5TS	36,999
16	40053	Best Septic Tank Cleaning Liquid Transfer Station	Fort Bend	5TL	1,577
16	40264	Stericycle Fresno Facility	Fort Bend	5MWTS	3,863
16	164	City of Galveston Transfer Station	Galveston	5TS	97,561
16	2232A	UTMB Galveston Solid Waste Incineration Facility	Galveston	5WI	553
16	1355A	Ruffino Hills Transfer Station	Harris	5TS	389,326
16	1471	Sam Houston Recycling Center	Harris	5TS	179,600
16	1483A	Koenig Street Transfer Station	Harris	5TS	123,166
16	1578	Hardy Road Transfer Station	Harris	5TS	444,048
16	1697	City of Deer Park Transfer Station	Harris	5TS	17,541
16	2234D	Liquid Environmental Solutions of Texas Houston Facility	Harris	5GG	282,537
16	2241A	Southwaste Disposal Hurst Facility	Harris	5GG	131,931
16	2298	B R Perrin Plant	Harris	5GG	27,909
16	2350	Big K Environmental Facility	Harris	5GG	53,459
16	2370	Wastewater Residuals Management	Harris	5GG	102,086
16	2386	EZ Waste Facility	Harris	5RR	156
16	40098	BFI Houston Resource Renewal Complex Transfer Station (facility reported all incoming materials as diverted and no waste transferred for disposal)	Harris	5TS	0
16	40131	Houston Southeast Transfer Station	Harris	5TS	241,633
16	40132	Houston Southwest Transfer Station	Harris	5TS	244,214
16	40133	Houston Northwest Transfer Station	Harris	5TS	217,159
16	40189	Egbert Transfer Station	Harris	5TS	65,010
16	40211	Sprint Recycling Center - Northeast	Harris	5TS	19,474
16	40217	Tanner Road Facility	Harris	5TS	60,499
16	40236	Excell Type V Transfer Station	Harris	5TS	12,110
16	40249	Lone Star Recycling & Disposal Facility Transfer Station	Harris	5TS	284,473
16	40250	Lone Star SRD Shredding Recycling Disposal Facility	Harris	5AC	215

COG	Permit or Registration	Site Name	County	Type	2017 Tons
16	40273	Excel Medical Waste Facility	Harris	5AC	2,216
16	40275	R&J Transfer Station	Harris	5TS	4,599
16	40283	Daniels Houston Facility	Harris	5MWTS	348
16	43034	Liquid Environmental Solutions of Texas Houston Burkett Facility	Harris	5GG	25,375
16	40028	Matagorda County Transfer Station	Matagorda	5TS	6,704
16	2222	Stericycle Conroe Facility	Montgomery	5AC	11,583
16	2309	Mid America Transfer Station & Material Recovery Facility	Montgomery	5TS	16,412
16	42037	New Earth Conroe Facility	Montgomery	5RC	392,536
16	2387	City of Huntsville Transfer Station	Walker	5TS	42,570
16	40014	City of Hempstead Transfer Station	Waller	5TS	89
16	2318	Don Tol Compost Facility	Wharton	5RC	3,204

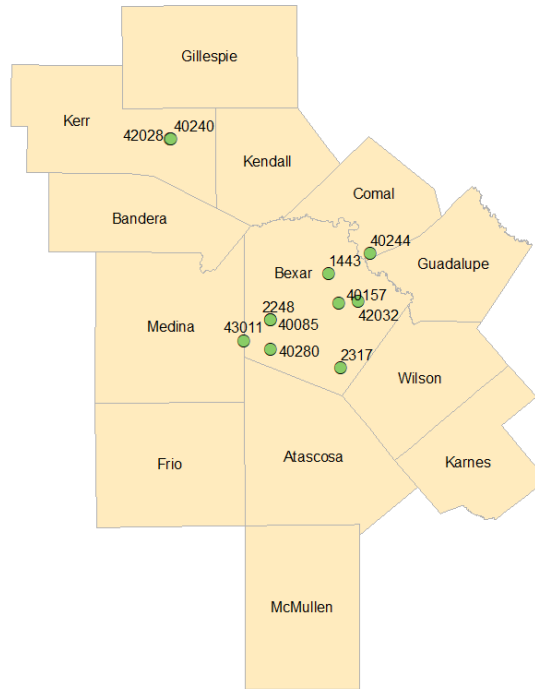
COG 17: Golden Crescent Regional Planning Commission—Processing Facility Locations



COG 17: Golden Crescent Regional Planning Commission—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
17	40017	City of Yoakum Transfer Station	Dewitt	5TS	27,120
17	2181	Jackson County Transfer Station	Jackson	5TS	4,255
17	40011	City of Hallettsville Transfer Station	Lavaca	5TS	178
17	2330	Victoria Environmental Liquid Processing Facility	Victoria	5GG	25,635
17	2366	Victoria Regional WWTP Grit Trap Waste Facility	Victoria	5GG	737
17	42034	Victoria Compost Facility	Victoria	5RC	20,486

COG 18: Alamo Area Council of Governments—Processing Facility Locations



COG 18: Alamo Area Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
18	1443	City of San Antonio Starcrest Transfer Station	Bexar	5TS	143,635
18	2248	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5GG	35,777
18	2317	Southwaste Disposal San Antonio Facility	Bexar	5RC	59,371
18	40085	Liquid Environmental Solutions of Texas San Antonio Facility	Bexar	5TS	4,463
18	40157	SOS Liquid Waste Haulers San Antonio Facility	Bexar	5TL	592
18	40280	Stericycle San Antonio Facility	Bexar	5MWTS	3,702
18	42032	New Earth San Antonio Facility	Bexar	5RC	113,031
18	40244	Medsharps Schertz Facility	Comal	5AC	3,407
18	40240	City of Kerrville Transfer Station	Kerr	5TS	74,388
18	42028	City of Kerrville Composting Facility	Kerr	5RC	17,700
18	43011	LaCoste Waste Water Treatment Plant	Medina	5GG	66,303

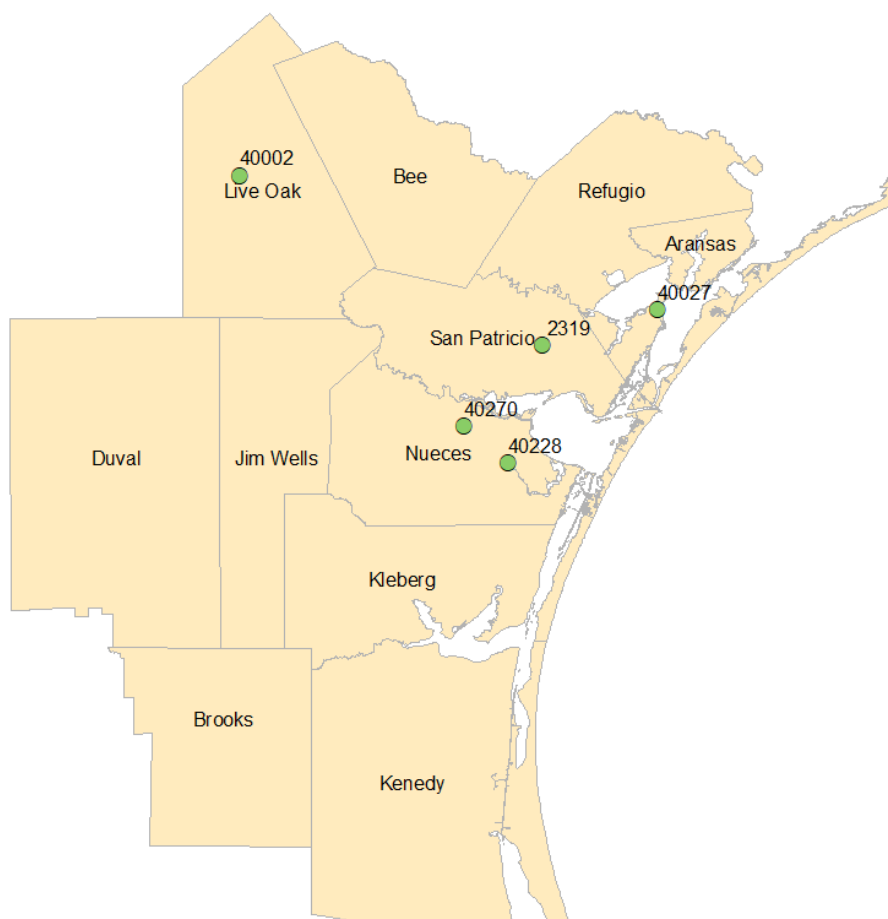
COG 19: South Texas Development Council—Processing Facility Locations



COG 19: South Texas Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
19	40103	Jim Hogg County Transfer Station	Jim Hogg	5TS	8,550
19	40238	Starr County Transfer Station	Starr	5TS	32,079

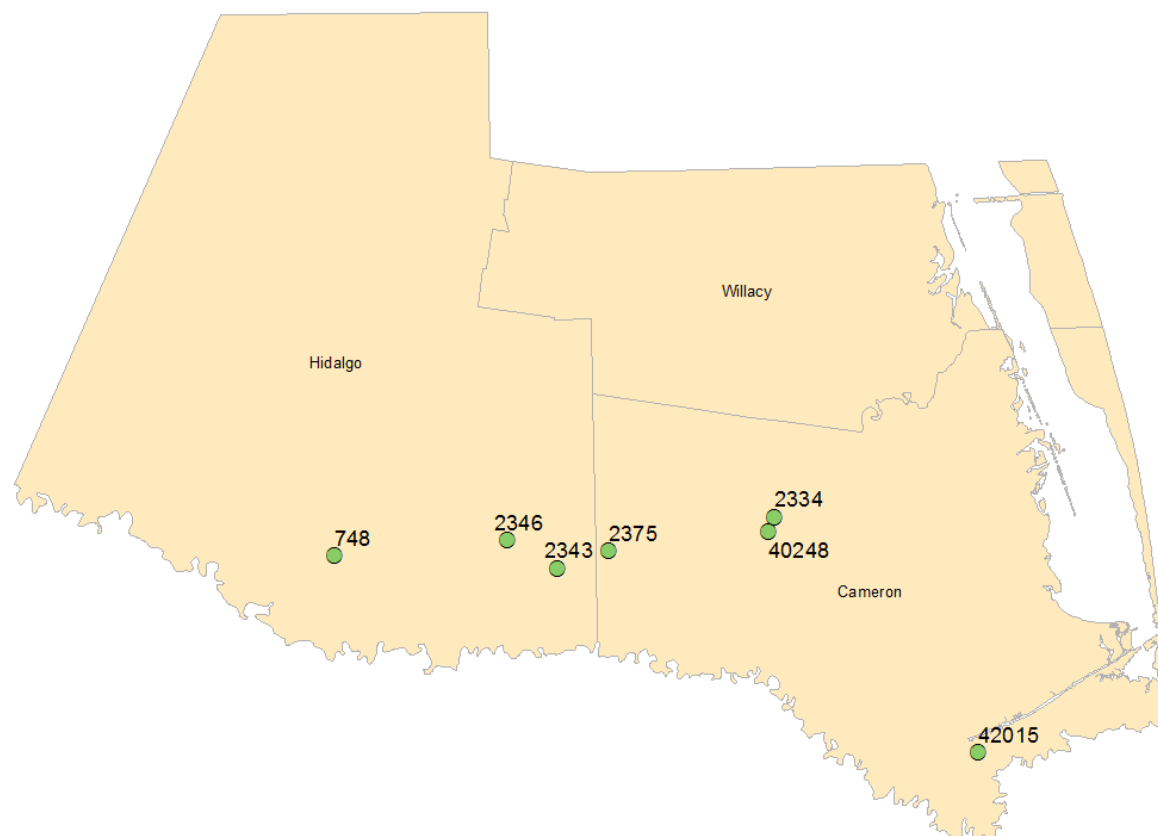
COG 20: Coastal Bend council of Governments—Processing Facility Locations



COG 20: Coastal Bend Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
20	40027	Aransas County Transfer Station	Aransas	5TS	6,930
20	40002	Live Oak County Transfer Station	Live Oak	5TS	1,290
20	40228	JC Elliott Transfer Station	Nueces	5TS	86,378
20	40270	Envirotech Waste Solutions Medical Waste Processing and Storage Facility	Nueces	5AC	116
20	2319	Texas Sludge Disposal Compost Facility	San Patricio	5RC	14,417

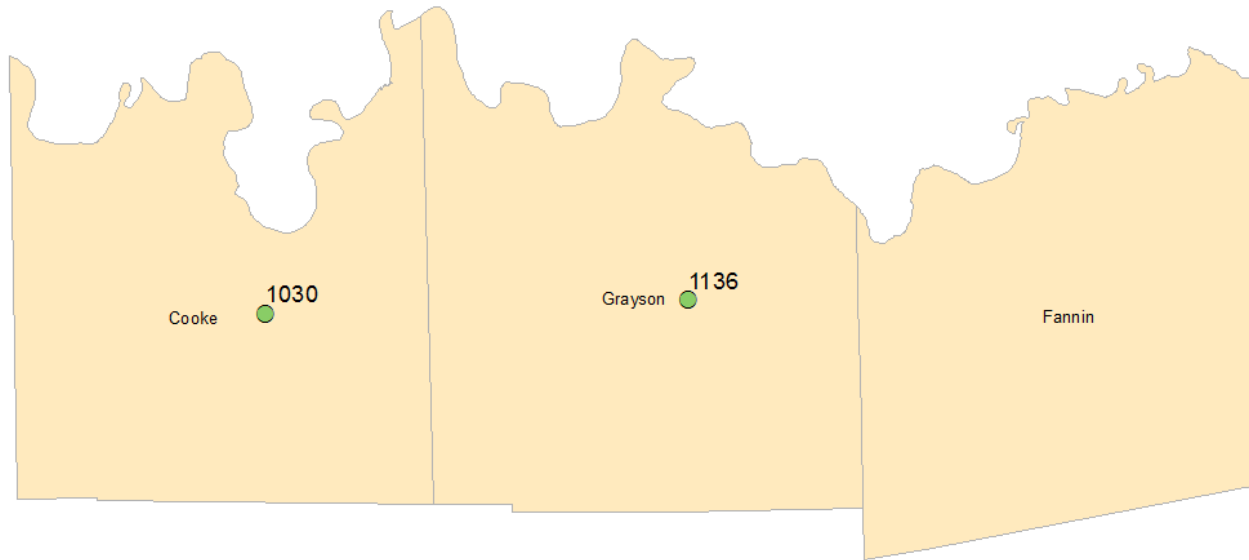
COG 21: Lower Rio Grande Valley Development Council—Processing Facility Locations



COG 21: Lower Rio Grande Valley Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
21	2334	Stericycle Harlingen Processing Facility	Cameron	5MW	3,255
21	2375	La Feria Transfer Station	Cameron	5TS	155,445
21	40248	City of Harlingen Transfer Station	Cameron	5TS	66,178
21	42015	City of Brownsville Composting Facility	Cameron	5RC	24,209
21	748	Pharr Transfer Station	Hidalgo	5TS	52,358
21	2343	Valley Dewatering Type V Facility	Hidalgo	5GG	16,574
21	2346	Liquid Environmental Solutions of Texas Weslaco Facility	Hidalgo	5GG	17,231

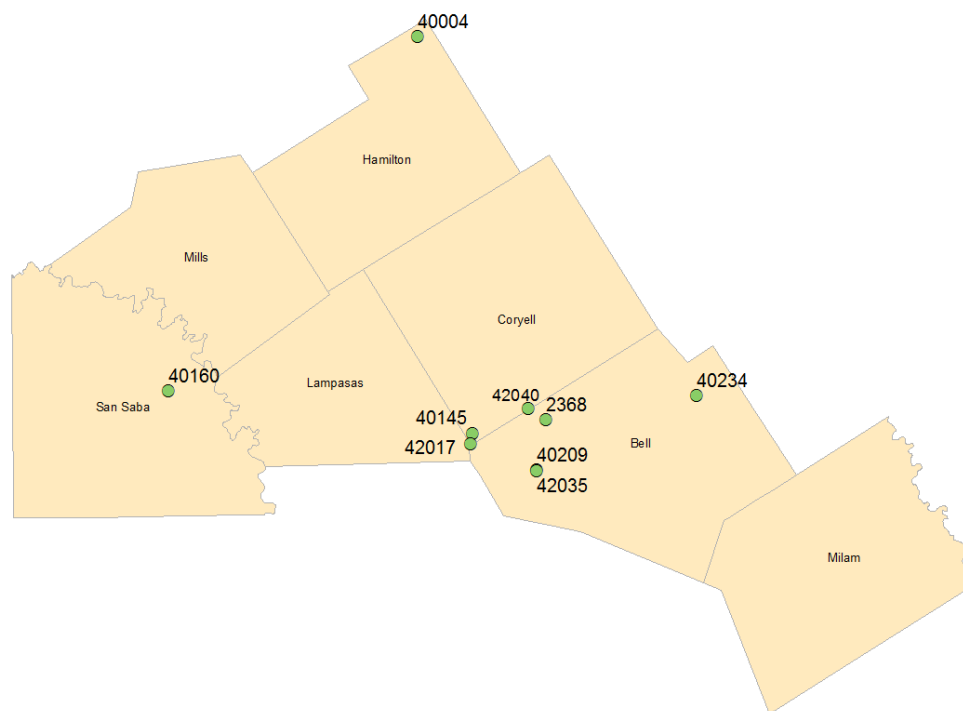
COG 22: Texoma Council of Governments—Processing Facility Locations



COG 22: Texoma Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
22	1030	City of Gainesville Transfer Station	Cooke	5TS	30,613
22	1136	City of Sherman Transfer Station	Grayson	5TS	11,447

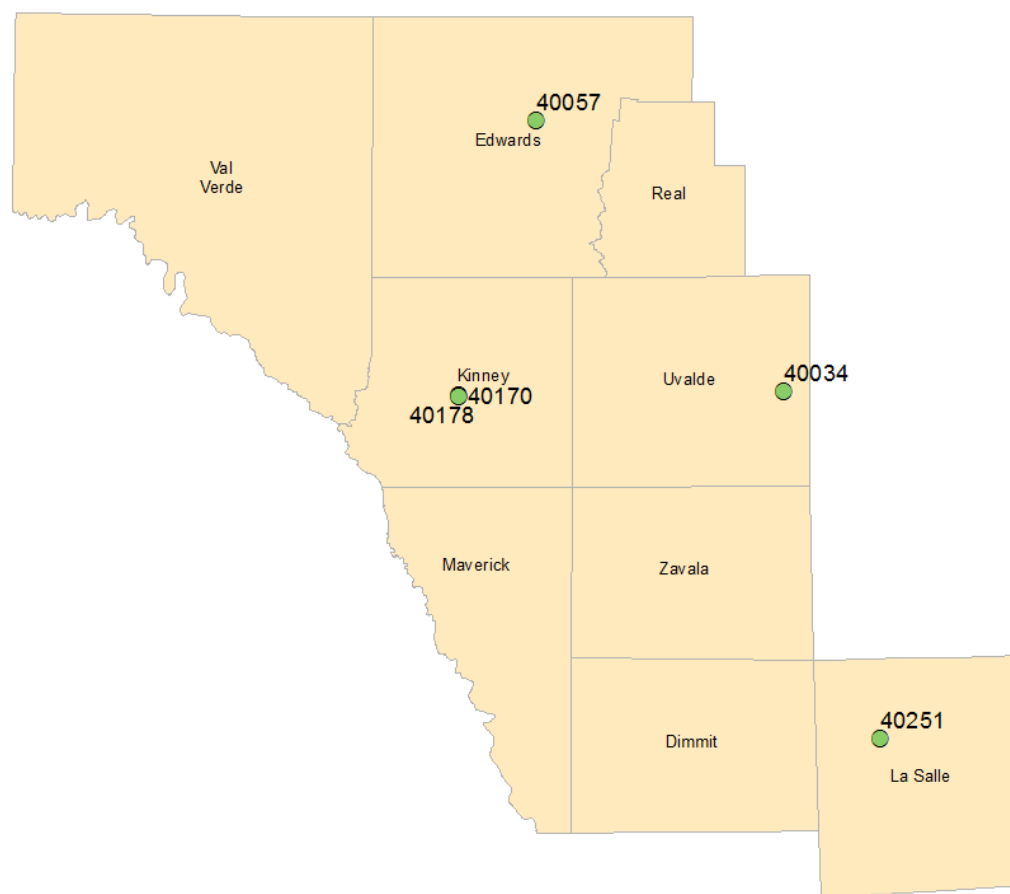
COG 23: Central Texas Council of Governments—Processing Facility Locations



COG 23: Central Texas Council of Governments—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
23	2368	S & M Vacuum & Liquid Waste Processing Facility	Bell	5GG	4,388
23	40209	Killeen Transfer Station	Bell	5TS	106,897
23	40234	Stericycle Temple Facility	Bell	5MWTS	441
23	42035	Bell County WCID 1 Regional Compost Facility	Bell	5RC	6,798
23	40145	City of Copperas Cove Transfer Station	Coryell	5TS	28,209
23	42017	City of Copperas Cove Compost Facility (facility reported chipping of brush for mulch only; Other incoming brush is diverted to Bell County WCID 1 Compost facility; no composting occurred on-site in 2017)	Coryell	5RC	475
23	42040	Fort Hood Biotreatment Facility	Coryell	5RC	520
23	40004	City of Hico Transfer Station	Hamilton	5TS	105
23	40160	City of San Saba Transfer Station	San Saba	5TS	3,681

COG 24: Middle Rio Grande Development Council—Processing Facility Locations

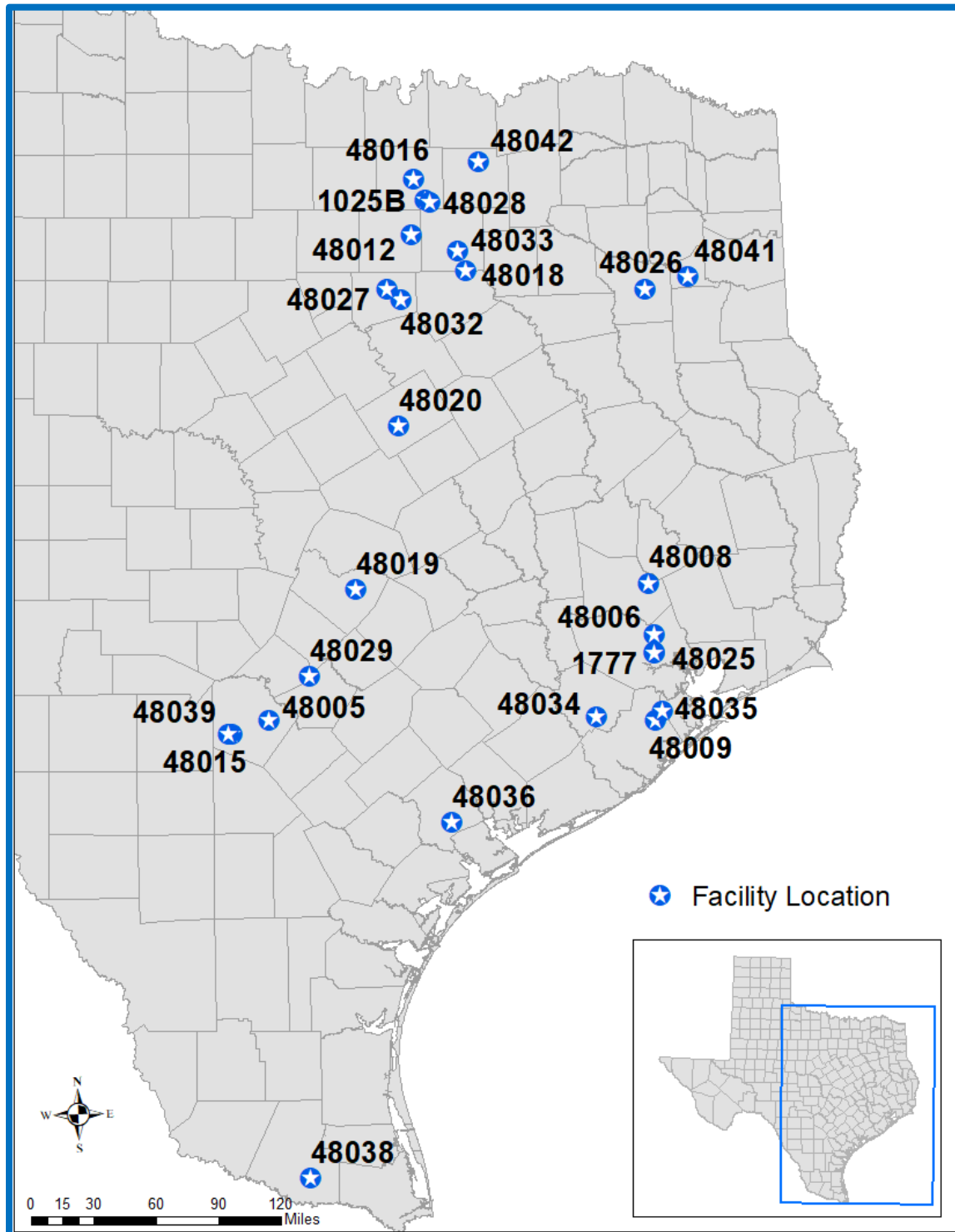


COG 24: Middle Rio Grande Development Council—List of Processing Facilities

COG	Permit or Registration	Site Name	County	Type	2017 Tons
24	40057	City of Rock Springs Transfer Station	Edwards	5TS	867
24	40170	City of Brackettville Transfer Station	Kinney	5TS	818
24	40178	Fort Clark Springs Transfer Station	Kinney	5TS	176
24	40251	City of Cotulla Transfer Station	La Salle	5TS	26
24	40034	City of Sabinal Transfer Station	Uvalde	5TS	925

Facility Data for MSW Facilities Recovering Landfill Gas for Beneficial Use

Locations of Facilities Recovering Landfill Gas for Beneficial Use



The table included in this section represents the active facilities for recovering landfill gas for beneficial use (Type 9GR) data reported for 2017. The table is organized by COG Region and county. All values are rounded to the nearest whole number.

Key for Landfill Gas Recovery Facilities Data Table

Abbreviation/Column Heading	Description
Landfill	Permit number of the landfill from which the 9GR facility recovers gas
Gas Processed	Estimated gas processed at the facility
Gas Distributed Off-site	Estimated gas distributed off-site from the facility
Power Generated & Sold	Estimated gas generated and sold by the facility
Power Generated & Used	Estimated gas generated and used on-site by the facility
ft ³	Standard cubic feet
kWh	Kilowatt hour

List of Facilities Recovering Landfill Gas for Beneficial Use

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
4	48042	121 RDF Landfill Gas Treatment Facility	Collin	2294	47,108,000	23,554,000	0	0
4	48018	Skyline Landfill Gas to Electric Facility	Dallas and Ellis	42D	1,008,766,000	0	47,292,196	1,621,804
4	48033	McCommas Bluff Landfill Gas Processing Facility	Dallas	62	4,071,698,000	1,979,729,000	0	0
4	1025B	DFW Recycling and Disposal Landfill Gas to Energy Facility	Denton	1025B	2,307,530,000	0	93,580,158	2,539,741

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
4	48016	City of Denton Landfill Gas to Energy Facility	Denton	1590A	358,659,682	0	11,828,021	10,856
4	48028	Camelot Landfill Gas to Energy Facility	Denton	1312A	0	0	25,681,100	799,289
4	48032	IESI Turkey Creek Landfill	Johnson	1417B	51,049,000	92,816,363	0	0
4	48012	City of Arlington Landfill Gas Processing Plant	Tarrant	358B	615,873,000	615,873,000	0	0
4	48027	Westside Landfill Gas to Electric Facility	Tarrant	1019A	772,077,000	0	35,330,906	1,681,213
6	48041	Pine Landfill Gas Treatment Facility	Gregg	1327B	142,787,000	259,612,000	0	0
6	48026	Greenwood Farms Landfill Gas Treatment Facility	Smith	1972A	325,734,000	592,243,636	0	0
11	48020	City of Waco Beneficial Landfill Gas Use Facility	McLennan	948A	176,830,510	0	0	0
12	48019	Austin Community Landfill Power Station	Travis	249D	1,399,677,000	0	42,300,149	2,185,851
16	48035	Blue Ridge Landfill Gas Compressor Station	Brazoria	1505A	1,347,008,040	319,759,000	0	0
16	48034	Fort Bend Landfill Gas Treatment Facility	Fort Bend	2270	410,628,825	225,845,900	0	0
16	48009	Coastal Plains Landfill Gas to Energy Facility	Galveston	1721A	0	0	25,086,768	26,771,500
16	1777	McCarty Road Landfill Gas Recovery Facility	Harris	261B	2,493,599,645	1,401,788,000	0	0
16	48006	Atascocita Landfill Gas to Energy Facility	Harris	1307D	0	0	48,309,403	49,704,800
16	48025	Ameresco McCarty Energy Landfill Gas to Energy Facility	Harris	261B	1,045,319,110	1,045,319,110	0	0

COG	Permit or Registration	Site Name	County	Landfill	Gas Processed (ft ³)	Gas Distributed Off-site (ft ³)	Power Generated and Sold (kWh)	Power Generated and Used On-Site (kWh)
16	48008	Security Landfill Gas to Energy Facility	Montgomery	1752B	0	0	22,416,015	22,729,000
17	48036	City of Victoria Landfill Gas Treatment Facility	Victoria	1522A	301,200,016	301,200,016	0	0
18	48005	Tessman Road Landfill Gas Power Station	Bexar	1410C	1,285,169,317	0	58,742,508	4,339,582
18	48015	Covel Gardens Landfill Gas Power Station	Bexar	2093B	1,561,475,418	0	59,072,437	4,181,593
18	48039	Nelson Gardens Landfill Gas to Energy Facility	Bexar	1237	610,687,000	0	19,247,891	15,574
18	48029	Mesquite Creek Landfill Gas to Energy Facility	Comal	66B	2,353,480,900	0	23,367,114	661,558
21	48038	Edinburg Landfill Gas Treatment Facility	Hidalgo	956B	459,646,000	835,720,000	0	0

MSW Waste and Material Type Descriptions

Descriptions of MSW Waste and Material Types

Waste/Material Type	Description
Brush	Cuttings or trimmings from trees, shrubs, or lawns and similar materials.
CESQG	Conditionally exempt small-quantity generator – a person that generates no more than 220 pounds of hazardous waste in a calendar month.
Class 1 wastes	Any industrial solid waste or mixture of industrial solid wastes that because of its concentration, or physical or chemical characteristics is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, or may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or disposed of or otherwise managed, as further defined in 30 TAC §335.505 (relating to Class 1 Waste Determination).
Class 2 wastes	Any individual solid waste or combination of industrial solid waste that are not described as Hazardous, Class 1, or Class 3 as defined in 30 TAC §335.506 (relating to Class 2 Waste Determination).
Class 3 wastes	Inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in 30 TAC §335.507 (relating to Class 3 Waste Determination).
Commercial solid waste	All types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, excluding residential and industrial wastes.
Construction or demolition waste	Waste resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including, but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics.
Covered television equipment	A direct view or projection television with a viewable screen of nine inches or larger whose display technology is based on cathode ray tube, plasma, liquid crystal, digital light processing, liquid crystal on silicon, crystal reflective technology, light-emitting diode, or similar technology. This definition also covers a display that is peripheral to a computer that contains a television tuner. This program applies to television equipment that is purchased primarily for personal or home-business use.
Grease trap waste	Material collected in and from a grease interceptor in the sanitary sewer service line of a commercial, institutional, or industrial food service or processing establishment, including the solids resulting from dewatering processes.
Grit trap waste	Grit trap waste includes waste from interceptors placed in the drains prior to entering the sewer system at maintenance and repair shops, automobile service stations, car washes, laundries, and other similar establishments.
Litter	Rubbish and putrescible waste.

Waste/Material Type	Description
Medical waste	Treated and untreated special waste from health care-related facilities that is comprised of animal waste, bulk blood, bulk human blood, bulk human body fluids, microbiological waste, pathological waste, and sharps as those terms are defined in 25 TAC §1.132 (relating to Definitions) from the sources specified in 25 TAC §1.134 (relating to Application), as well as regulated medical waste as defined in 49 Code of Federal Regulations §173.134(a)(5), except that the term does not include medical waste produced on a farm or ranch as defined in 34 TAC §3.296(f) (relating to Agriculture, Animal Life, Feed, Seed, Plants, and Fertilizer), nor does the term include artificial, nonhuman materials removed from a patient and requested by the patient, including, but not limited to, orthopedic devices and breast implants. Health care-related facilities do not include: (A) single or multi-family dwelling; and (B) hotels, motels, or other establishments that provide lodging and related services for the public.
Monofill	A landfill that is granted a permit by rule, for a period of up to five years to a county or municipality with a population of 12,000 people or less to dispose of demolition waste from properties with nuisance or abandoned buildings.
Municipal solid waste	Solid waste, resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.
NHIW	Nonhazardous Industrial Waste. Includes Class 1, Class 2, and Class 3 wastes.
Non-RACM	Non-regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61. This is asbestos material in a form such that potential health risks resulting from exposure to it are minimal.
Paper	A material made from plant fibers (such as but not limited to wood pulp, rice hulls, and kenaf). The sludge byproduct resulting from the production of paper may be approved as a feedstock pursuant to 30 TAC §332.33(b) (relating to Required Forms, Applications, Reports, and Request to Use the Sludge Byproduct of Paper Production).
RACM	Regulated asbestos-containing material as defined in 40 Code of Federal Regulations Part 61, as amended, includes: friable asbestos material, Category I nonfriable asbestos-containing materials (ACM) that has become friable; Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations.

Waste/Material Type	Description
Residential waste (Household waste)	Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple houses, hotels, and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include brush.
Regulated Hazardous Waste	A solid waste that is a hazardous waste as defined in 40 Code of Federal Regulations (CFR) §261.3 and that is not excluded from regulation as a hazardous waste under 40 CFR §261.4(b), or that was not generated by a conditionally exempt small-quantity generator.
Septage	The liquid and solid material pumped from a septic tank, cesspool, or similar sewage treatment system.
Sludge	Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water-supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.
Tires (Scrap)	Any tire that can no longer be used for its original intended purpose. Only split, quartered, or shredded tires may be disposed of in a landfill.
Television recycler	A person who separates collected television equipment and refurbishes that equipment for reuse, or processes equipment to be returned to use in the form of raw materials or products. The term does not include an entity that solely collects or sorts television equipment prior to shipment for recycling.
Used oil	Any oil that has been refined from crude oil, has been used, and, as a result of such use, is contaminated by physical or chemical impurities.
White goods	Discarded large household appliances such as refrigerators, stoves, washing machines, or dishwashers.
Yard trimmings	Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than six inches in diameter that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.